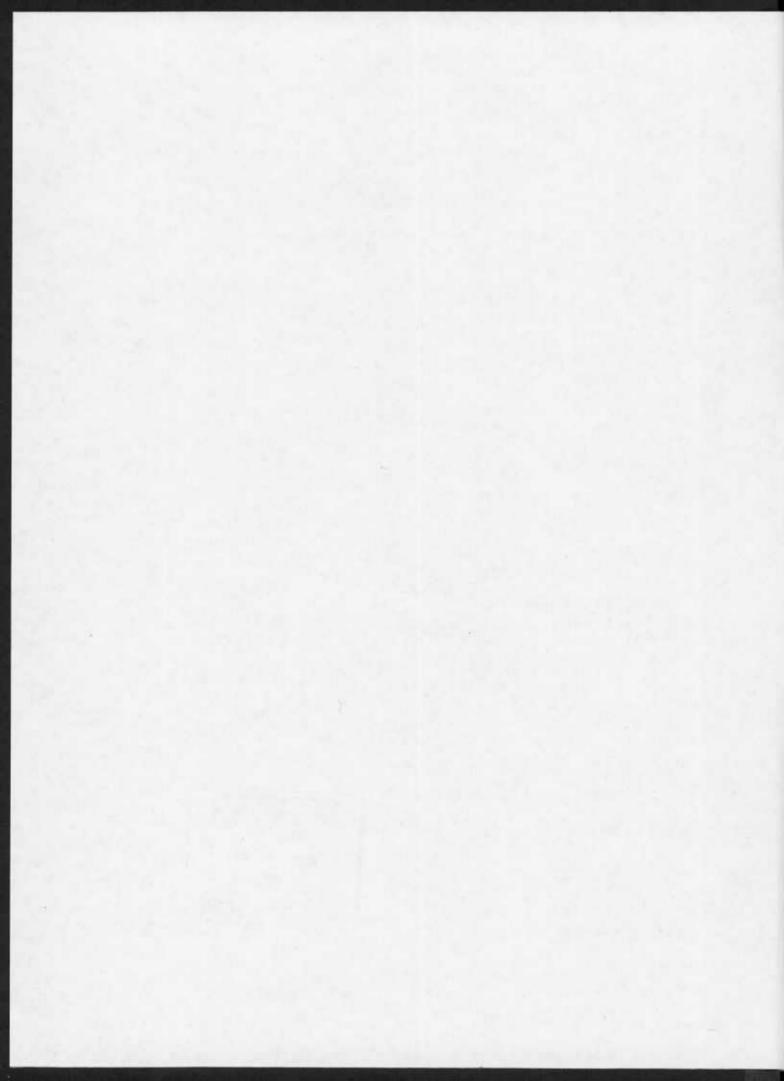
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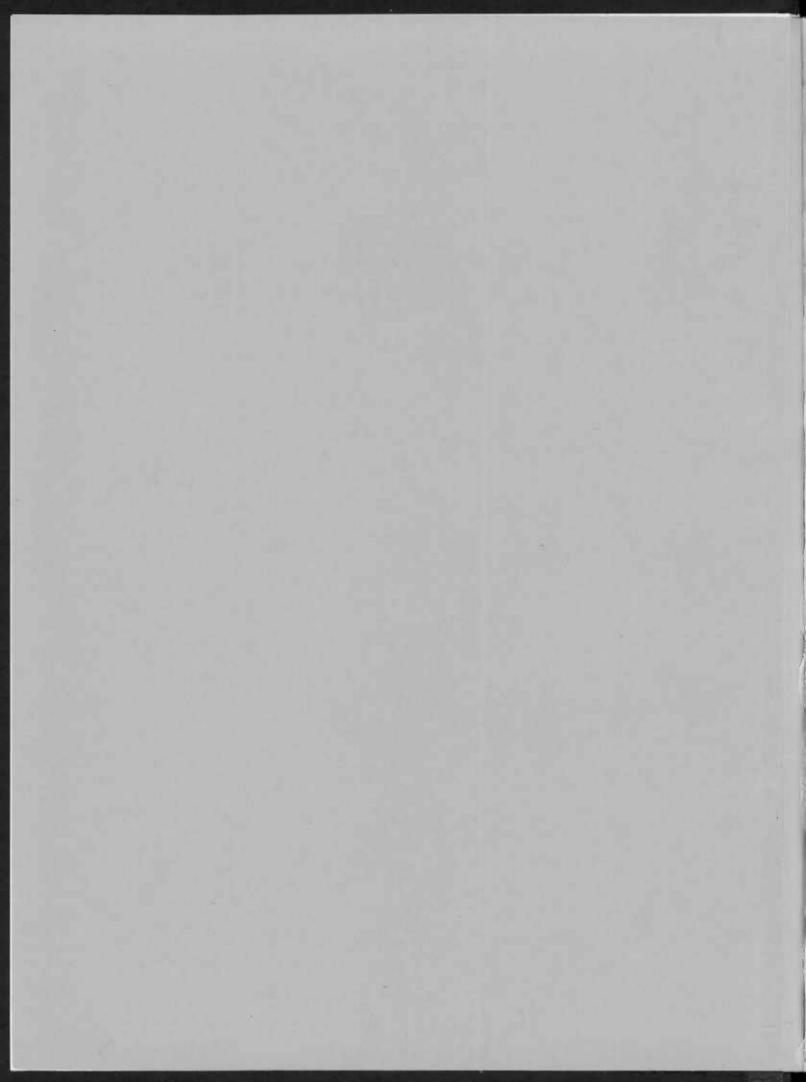
GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND



Col Randall Inouye, Vice Chair

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DECEMBER 20, 1996



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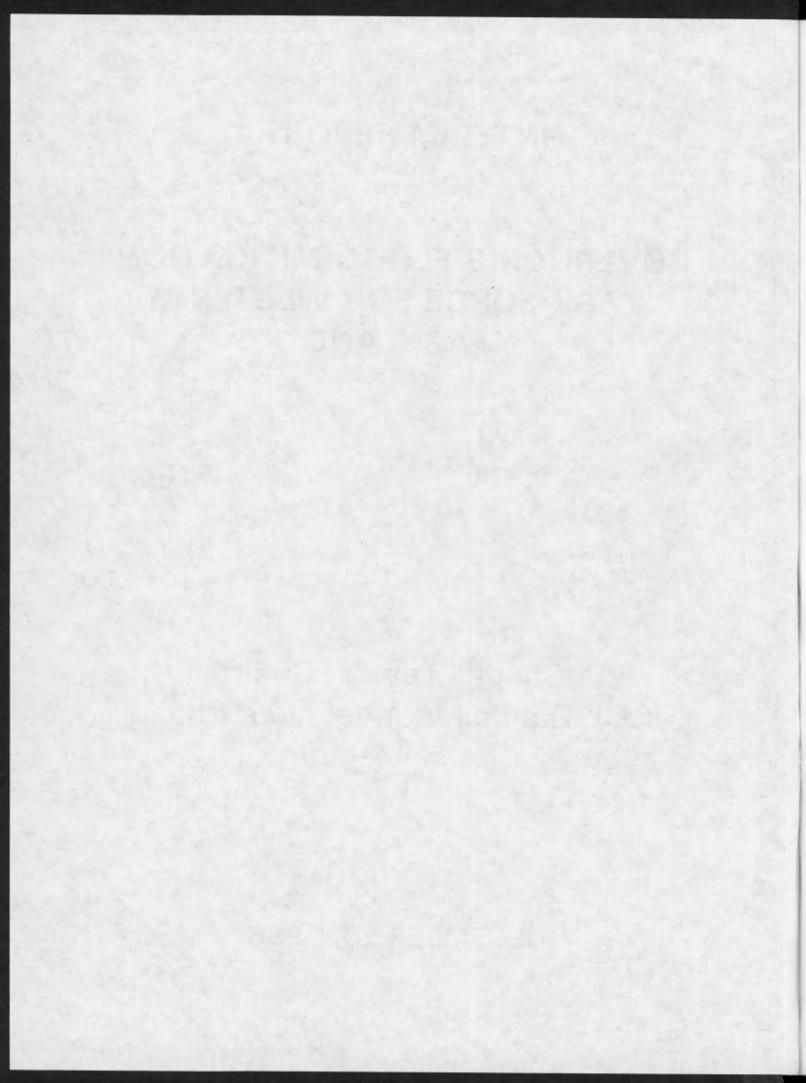
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GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND



Casper Taylor, Chair COL Randall Inouye, Vice Chair

DECEMBER 20, 1996



INTERIM REPORT

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

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Section 2: Purpose

Section 3: Task Force Methodology

Section 4: Short-Term Workgroup Action Plan

Section 5: Long-Term Workgroup Action Plan

Section 6: Significant Actions and Critical Issues

Section 7: Initial Funding Requirements

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GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

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SECTION 1

EXECUTIVE SUMMARY

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GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 1

EXECUTIVE SUMMARY

Executive Summary

The State of Maryland experienced several floods in 1996, two of which resulted in Presidential Disaster Declarations. Rapid snowmelt from the blizzard of early January 1996 led to the first of the two flooding disaster declarations (January 19, 1996) due to damage in Allegany, Garrett, Frederick, Washington, and Cecil counties. A second Presidential Disaster Declaration was granted for Allegany, Frederick, and Garrett Counties on September 22, 1996 as a result of heavy rainfall from Tropical Storm Fran. Both of the "declared" flooding disasters manifested the greatest damage in western Maryland, although damage from Tropical Storm Fran was noted around the State. Flooding also occurred in Allegany County in late June 1995 due to heavy rainfall, and in the Emmitsburg area of Frederick County in June 1996, but the resulting damage from these events was not severe enough to warrant a Presidential Disaster Declaration.

Never before in the State of Maryland has more than one Presidential Disaster Declaration occurred in a single year; as a result of the January 1996 blizzard and two subsequent floods, there are now three so-called "open" disasters. As a result of these extraordinary natural disasters, a Governor's Task Force on the Flooding in Western Maryland was announced at the Governor's Flood Summit Meeting on October 7, 1996.

The Task Force is comprised of a cross-section of elected and appointed officials and businesspersons and its mission was made clear by a letter from Governor Parris N. Glendening: "review recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region."

The task force held a series of public meetings which allowed citizens and local elected officials to bring significant flood-related issues to the attention of the Task Force. Many of the comments received at these meetings served provided valuable information to the Task Force and its working groups. The public meetings were conducted in Allegany, Garrett, Frederick, and Washington counties between November 20-25, 1996. Local elected officials and members of the public were invited to speak to the Task Force and provide comments to identify flooding problems and potential solutions to assist in the development of the Task Force's recommendations. Individuals who could not attend the public meetings were permitted to mail or fax their comments to the Task Force by November 27, 1996.

At the organizational meeting of the Task Force at Frostburg State University on November 14, 1996, three workgroups were identified to investigate the causes, issues and recommended solutions to recurrent flood damage in the western Maryland counties of Allegany, Frederick, Garrett and Washington:

- •Short-Term Workgroup: Addresses immediate efforts such as streambed restoration, floodplain management, and short-term mitigation measures. Short-term measures are those that are ongoing or should occur within the next 12 months, although some measures may have to be implemented over a 36 month period due to funding constraints.
- •Long-Term Workgroup: Addresses longer-term efforts such as flood gaging and warning systems, environmental restoration (including reforestation, wetland creation, re-establishment of stable stream forms, recapture of flood prone areas, and acid mine drainage abatement), and building acquisitions or retrofits which cannot be accomplished immediately. The group will develop an action plan for the next five years.
- •Funding Workgroup: Addresses and identifies current, possible and needed funding sources for recommended mitigation measures.

Members of the task force participated in work groups related to their specific areas of expertise. Additional staff from local, State, and federal agencies provided technical assistance and information to the workgroups.

The workgroups examined the issues and recommendations presented through public meetings and historical data, and compiled their conclusions into action plans. The complete action plans are provided as annexes to the main report. Significant issues and recommendations from the workgroups include:

Short-Term Workgroup

1) RECOMMENDATION: Purchase and remove 276 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.

COST: Acquisition and demolition of identified structures/properties is estimated at approximately \$11.9 million. It is recommended that funding be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3)

million) and federal (\$1.1 million) funds are currently available which require a local cost share.

2) RECOMMENDATION: Identify and assist in funding floodproofing methods for public buildings or facilities and business owners when appropriate through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.

COST: Currently being estimated.

3) RECOMMENDATION: Immediately restore streambeds and affected infrastructures to their condition prior to storm events. Immediately remove debris from prior storm events from affected waterways.

COST: The Natural Resources Conservation Service of the U.S. Department of Agriculture has been authorized to spend approximately \$6.1 million since January 1996 to implement the above activities. This cost includes a 25% local share in either cash or in-kind services, which represents a total project cost of \$8.2 million.

4) RECOMMENDATION: Where feasible, remove waterway blockages (e.g. old dikes, dams, trestles, etc.) to allow the free flow of flood waters.

COST: An estimated cost for removal is not available at this time, pending final identification of structures for removal. Costs of removal should be shared by the owners of the structures.

5) RECOMMENDATION: Work with Federal officials and the insurance industry to streamline payment of flood insurance claims.

COST: Unknown; efforts of available staff could be focused toward this recommendation.

6) RECOMMENDATION: Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.

COST: Unknown; efforts of available staff could be focused toward this recommendation.

7) RECOMMENDATION: Create legislation to amend/augment the State's Comprehensive Flood Grant Management Program as follows:

-Increase the State share from 50 percent to 75 percent and reduce the local share to 25 percent. The Comprehensive Flood Grant Management Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.

-Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.

-Provide relocation costs and a financial incentive to induce residents to relocate out of the floodplain.

COST: Recommend that the amended Comprehensive Flood Management Grant Program seek bond authorizations at a level of \$1 million annually for State Fiscal Years 1998, 1999, and 2000 to facilitate property acquisitions and other recommendations of this report.

8) RECOMMENDATION: Fully fund the State Catastrophic Event Fund. Create legislation to amend/augment the State's Catastrophic Event Fund as follows:

-Expand availability of the fund for use by local jurisdictions.

-Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year.

-Reserve certain funds for immediate disbursement following a disaster and/or to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share basis.

COST: Recommend that the amended Catastrophic Event Fund be maintained at a level of \$5 million.

9. RECOMMENDATION: Implement currently proposed elevation and construction mitigation projects.

COST: Estimated total cost of these projects is \$822,250. Funding required should be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years.

Long-Term Workgroup

- 1) RECOMMENDATION: That the Maryland Department of the Environment (MDE) and the Maryland Emergency Management Agency (MEMA) be designated as the responsible agencies for synchronizing all post flood recovery and watershed restoration efforts in Maryland.
- 2) RECOMMENDATION: That an Executive Steering Committee, appointed by the Governor of Maryland meet on a semi-annual basis to monitor the progress on identified issues. This steering committee should coordinate its actions with the State Hazard Mitigation Policy Team. The first committee meeting should be scheduled for the first week in May 1997.
- 3) RECOMMENDATION: That the lead Federal, State, and local agencies investigate the open issues and report progress at the Executive Steering Committee meetings.
- 4) RECOMMENDATION: That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden of the local cost share requirements.
- 5) RECOMMENDATION: That Maryland Department of the Environment conduct public symposiums for western Maryland to educate citizens on the relationships between land use and flooding.
- 6) RECOMMENDATION: That watershed studies be targeted to address the needs of the individual counties and that information be used to update existing county plans.
- 7) RECOMMENDATION: That authorities responsible for all existing State of Maryland programs for locally-designated Conservation and Revitalization Areas give priority of effort, in order, to Allegany, Garrett, Washington and Frederick Counties. The Secretaries/Directors of appropriate Departments and Agencies should assume responsibility for this action.

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GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 2

PURPOSE

announcing the appointment of the Task Force members on November 4.

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 2

PURPOSE

PURPOSE

The four western counties in the State of Maryland, Allegany, Frederick, Garrett, and Washington, suffered a series of significant flooding events beginning in the summer of 1995. The quick succession of storms allowed little time for citizens and communities to fully recover from one flood before the next flood arrived. In September 1996, Governor Glendening, members of the Maryland Congressional delegation, and others toured flood damaged areas following Hurricane Fran. Governor Glendening, in consultation with other public officials, made a decision to appoint a task force which would be responsible for identifying specific actions to minimize damage from future flood events. The purpose of this report is to document the work of the Governor's Flood Mitigation Task Force for Western Maryland, identify critical issues and at-risk areas, and recommend actions to reduce the threat to citizens and property from future flooding.

Attached to this section of the report are the Governor's greeting to the members of the Task Force on the occasion of their December 11, 1996 meeting in Frostburg, Maryland, and the Governor's press release announcing the appointment of the Task Force members on November 4, 1996.

PURPOSE

The four western counties in the State of Meryland, Allegany, Federick, Carrett, and Washington, suffered a series of significant flooding events beginning in the summer of 1895. The quick succession of atoms allowed little time for citizens and communities to fully recover from one flood before the next flood arrived. In September 1996, Governor Glenderling, members of the Maryland Congressional delegation, and others roured flood demegad areas following riurricane Fran. Governor Glenderling, in consultation with other public officials, made a decision to appoint a task force which would be responsible for identifying specific actions to minimize demage from future flood events. The purpose of this report is to document the work of the Governor's Flood Midgetion Task force for Western Maryland, identify critical issues and at risk areas, and monominand actions to reduce the threat to critises and at risk areas, and flooding.

Attached to this section of the report are the Governor's greating to the members of the Trisk Force on the occasion of their December 11, 1996 meeting in Frostburg, Maryland, and the Governor's press release announcing the appointment of the Task Force members on Nevember 4, 1996.



December 11, 1996

PARRIS N. GLENDENING GOVERNOR

ANNAPOLIS OFFICE STATE HOUSE 100 STATE CIRCLE ANNAPOLIS. MARYLAND 21401 (410) 974-3901

WASHINGTON OFFICE SUITE 311 444 NORTH CAPITOL STREET, N.W. WASHINGTON, D.C. 20001 (202) 638-2215

TDD (410) 333-3098

Dear Task Force Members:

Thank you for the time and energy you have invested in the Flood Mitigation Task Force. I commend you for accepting this important and challenging responsibility.

Speaker Taylor, I am most grateful for your service as Chair of the Task Force. The citizens of Western Maryland took the lion's share of the flooding in the aftermath of the January Blizzard and Tropical Storm Fran's fury. Your understanding and knowledge of the communities who suffered through the flooding bring a special blend of compassion and leadership to the Task Force. Colonel Inouye, your acceptance of this tremendous challenge enables the Task Force to benefit from your technical expertise and vast experience addressing systemic problems as experienced in the various Western Maryland watersheds.

Each of the State and federal agencies represented on the Task Force contributes additional professional knowledge and energy. You, along with your coworkers in your home agencies, allow the Task Force to look for realistic short and long term strategies to mitigate the flooding in Western Maryland. This Task Force has a great depth of expertise.

Finally, my deep appreciation goes to the citizens--businessmen, community leaders and local public servants. You are the reason we have come together. You represent the communities who have suffered repeated devastation at the hand of Nature.

As homeowners, we all know our home is the embodiment of our dreams. I will never forget the physical and emotional damage left by the relentless waters that tore through Western Maryland. The physical destruction was perversely spectacular. The emotional trauma was heartbreaking. One child was worried about replacing his shoes so he could go to school. All of his clothing, including shoes, had been swept away by the flood. I met families whose resilience was washed away by the rains, who now just want a safer place to live. They are the reasons we formed this Task Force.

Again, thank you for your dedication to this very important task. The mission of the Task Force is the construction of an integrated, synchronized plan to help the residents of Frederick, Washington, Garrett and Allegany Counties save their homes from the ravages of flooding. I look forward to receiving your interim report and recommendations on reasonable and responsive strategies to help alleviate the suffering of our neighbors. Your charge is a heavy one and there is much work to be done. We are all in your debt.

Sincerely,

Parris N. Glendening

N. Slengle

Governor



STATE OF MARYLAND OFFICE OF THE GOVERNOR

FOR IMMEDIATE RELEASE

CONTACT:

Judi Scioli

Ray Feldmann (410) 974-2316

GOVERNOR'S PRESS OFFICE

GOVERNOR GLENDENING NAMES MEMBERS TO WESTERN MARYLAND FLOOD TASK FORCE

Group Will Develop Solutions to Reduce Risks of Future Flooding

ANNAPOLIS, MD (November 4, 1996) --- As part of his ongoing efforts to reduce the risks of future flooding in Western Maryland, Governor Partis N. Glendening today appointed an impressive cross-section of elected and appointed officials and businesspersons as members of his Flood Mitigation Task Force, which he had announced during a recently held Flood Summit at Frostburg State University.

During the coming weeks, the group will review the recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region. The task force will present its initial findings to the Governor by December 20, 1996.

"People who live in these Western Maryland counties have suffered greatly because of continued occurrences of flooding over the past two years," said Governor Glendening. "We made a commitment to explore long-term solutions to remedy this problem, and I am confident that this task force will work hard and work quickly to find practical, cost-effective solutions to prevent future flooding disasters."

U.S. Senator Barbara A. Mikulski, who along with the Governor was instrumental in working with the Clinton Administration to secure Federal funding to provide emergency financial assistance to Western Maryland businesses and residents, commended Governor Glendening for his actions.

"This is very good news," Senator Mikulski said. "We now need to move forward in a wery quick paced way before blizzards overtake us."

(more)

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Cumberland native and Maryland House Speaker Casper R. Taylor, Jr., who was named by Governor Glendening as chair of the task force, said he is optimistic that the group will be successful in identifying long-term solutions to the flooding problems which have plagued several Western Maryland communities.

"This is an excellent group of individuals," Speaker Taylor said. "There is no question in my mind that working together, we will develop of strong set of recommendations that will help us to prevent the kind of devastation we saw this past year in Lonaconing, Westernport, Cumberland, Point of Rocks, and other nearby areas."

In naming the members of the Task Force, Governor Glendening announced that Colonel Randall R. Inouye, District Engineer of the Baltimore District of the U.S. Army Corps of Engineers, will serve as vice chair. The following Federal representatives were also appointed today:

- Dr. Jeri Berc, State Conservationist, Natural Resources Conservation Service, U.S. Department of Agriculture (USDA);
- John Walls, State Director, USDA Rural Development;
- Doug Faris, Superintendent, C&O Canal National Historic Park, National Park Service, U.S. Department of Interior;
 - Vicki Doty, Division Director of Mitigation, Region III, Federal Emergency Management Agency (FEMA);
 - Jan Opper, Senior Program Officer, U.S. Department of Housing and Urban Development;
 - Jim Kelly, Economist, U.S. Department of Housing and Urban Development;
 - Herb Sachs, Executive Director, Interstate Commission on the Potomac River Basin:
 - Guy Land, Special Counsel and Congressional Liaison. Appalachian Regional Commission.

Page three

Governor Glendening today also named the following local officials to the Task Force:

- Delegate Sue Hecht (D-Frederick);
 - Delegate George C. Edwards (R-Garrent);
 - Robert Lyons, Mayor of Westernport;
- Dr. Daniel A. Murphy, Town Council, Town of Hancock;
 - Dale R. Lewis, Board of Allegany County Commissioners and a Lonaconing resident:
 - W. Stephen Young, Allegany County Director of Public Works.

In addition, the Governor named several areas businesspersons to the Task Force:

- Malcolm D. "Mack" Davis, President, Davis, Renn & Associates, Inc.
 (Washington County);
- William M. "Bill" Keeny, former County Commissioner and small business owner (Allegany County);
- Diane Liebman, Vice President of Railroad Federal Affairs, CSX Corporation;
- Sull McCartney, owner of Highland Engineering (Garrett County);
- Richard L. Stup, an engineer with Loiderman & Associates (Frederick County).

Governor Glendening said the Task Force also would include representation from the following State agencies and departments:

- Maryland Department of Agriculture;
- Maryland Department of Business and Economic Development;
- Maryland Emergency Management Agency;
- Maryland Department of Environment;
- Maryland Department of Housing and Community Development;
- Maryland Department of Natural Resources;
- Maryland Office of Planning;
- Maryland Department of Transportation.

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 3

TASK FORCE METHODOLOGY

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GOVERNOR'S FLOOD INITIGATION TASK

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- a Robert Lyons, Mayor of Westernboth
- Dr. Dreet A. L.H.Q. CHEL CMILHULLAND INCOME.
- Dule R. Liewig Board of Allegany County Commissioners and a Londonnian
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TASK FORCE METHODOLOGY

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 (Allegany County);
- Dime Liebman, Victs President of Rational Pederal Affairs, USA Corporation
- Soil McCenters, Awar of Highland Engineering (Genera County).
- Simula L. Stury, an employed with Leblar man the Associated (President County)

Governor Gregoring and the Task Porce also regard include representation from the

following State agencies and digastiments

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- Marked Demonstrated Separate and Personal Development
- Married Engineer Management Agency.
- Mirriand Department of Economicals.
- Named Description of Hoosing and Common Development.
- Marriand Department of Natural Respurces:
- a Maryland Office of Planning
- Marriand Department of Transportation.

TASK FORCE METHODOLOGY

The Task Force is comprised of a cross-section of elected and appointed officials and businesspersons and its mission was made clear by a letter from Governor Parris N. Glendening: "review recent flooding events that occurred in Allegany, Frederick, Garrett, and Washington counties and develop recommendations to minimize or eliminate future flooding possibilities in that region."

The task force held a series of public meetings which allowed citizens and local elected officials to bring significant flood-related issues to the attention of the Task Force. Many of the comments received at these meetings served provided valuable information to the Task Force and its working groups. The meetings were held according to the following schedule:

Frederick County:	November 20, 1996	Winchester Hall
	7:00-9:30 p.m.	Frederick, MD

Washington County:	November 22, 1996 1:30-4:30 p.m.	Hagerstown Junior College
		Hagaretown MD

Garrett County:	November 25, 1996 1:00-4:00 p.m.	Garrett Community College
		McHenry, MD

Allegany County:	November 25, 1996 7:00-9:30 p.m.	Frostburg State University Frostburg, MD
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Local elected officials and members of the public were invited to speak to the Task Force and provide comments to identify flooding problems and potential solutions to assist in the development of the Task Force's recommendations. Individuals who could not attend the public meetings were permitted to mail or fax their comments to the Task Force by November 27, 1996.

At the organizational meeting of the Task Force at Frostburg State University on November 14, 1996, three workgroups were identified to investigate the causes, issues and recommended solutions to recurrent flood damage in the western Maryland counties of Allegany, Frederick, Garrett and Washington:

- •Short-Term Workgroup: Addresses immediate efforts such as streambed restoration, floodplain management, and short-term mitigation measures. Short-term measures are those that are ongoing or should occur within the next 12 months, although some measures may have to be implemented over a 36 month period due to funding constraints.
- •Long-Term Workgroup: Addresses longer-term efforts such as flood gaging and warning systems, environmental restoration (including reforestation, wetland creation, and acid mine drainage abatement), and building acquisitions or retrofits which cannot be accomplished immediately. The group will develop an action plan for the next five years.
- •Funding Workgroup: Addresses and identifies current, possible and needed funding sources for recommended mitigation measures.

Members of the task force participated in work groups related to their specific areas of expertise. Additional staff from local, State, and federal agencies provided technical assistance and information to the workgroups.

The entire Task Force convened again on December 11, 1996, to discuss the findings of the workgroups and the structure of the interim report to the Governor. The interim report was presented to the Governor on December 20, 1996.

Local elected officials and members of the public were invited to reak to the Task Force and provide comments to identify flooding protes potential solutions to assist in the development of the Task Force's commendations. Individuals who could not estend the public meeting are permitted to mail or fax their comments to the Task Force by

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GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 4

SHORT-TERM WORKGROUP
ACTION PLAN

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GEVERNOR'S FLOOD MITISATION TASK

*Funding Workproupt. Addresses and Identifies current, possible and needed funding sources. Addresses and Identifies current, possible and

Members of the test force participated in work groups related to their specific areas of experient. Additional staff from local, State, and tederal agencies provided technical assistance and information to the verifications.

The entire Task Force convened anen on Occamber 11, 1996, to discuss the findings of market of Local discuss the findings of market of Local discuss on the Governor. The interim report was presented to the Governor on December 20, 1996.

SHORT-TERM WORKGROUP ACTION PLAN

SHORT-TERM WORK GROUP ACTION PLAN

1. <u>STATEMENT OF THE PROBLEM:</u> Maryland has experienced three historic flooding events in between June 1995 and September 1996. The damage has been extensive and has been exacerbated by the conditions created by previous flood events. Structures and infrastructure have been built in flood channels and in floodplains prior to the adoption of current floodplain regulations and are at risk. Surface water detaches and carries with it sediment and debris picked up by both overland flow and along streambanks. Streambank cutting occurs which threatens developed areas in the floodplain. After serious storm events, debris left in the streams causes greater flood hazards than had existed prior to the storm. This flooding ultimately forces citizens from their homes and damages roads and other infrastructure.

OBJECTIVE: This action plan will provide a comprehensive plan to cover the present day to 12 months and beyond to address the needs of western Maryland for minimizing the impacts of future flood events. This plan will include streambank restoration, stream channel clearance, housing acquisition, retrofitting of buildings and infrastructure, and other measures which are presently occurring or could occur rapidly if adequate funding is provided.

2. SIGNIFICANT ACTIONS REQUIRED:

a. ALL COUNTIES:

- 1) Immediately restore streambeds and affected infrastructures to their condition prior to storm events. A summary of NRCS and SHA actions taken to accomplish this recommendation is at Tab 1.
 - 2) Immediately remove debris from prior storm events from affected waterways. A summary of NRCS and SHA actions taken to accomplish this recommendation is at Tab 1.
 - 3) Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain. Recommended acquisitions (listed by county) are detailed at Tab 2. Total estimated cost of recommended acquisitions is \$11,875,170; \$3,820,300 worth of acquisitions in the 0-12 month timeframe

and \$8,054,870 worth of acquisitions beyond 12 months. These cost figures and total number of structures (296) assume that all residents will be willing to relocate.

- 4) Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.
- 5) Identify and assist in funding floodproofing methods for public buildings or facilities and business owners when appropriate through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.
 - 6) Work with Federal officials and the insurance industry to streamline payment of flood insurance claims.
 - 7) Create legislation to amend/augment the State's Comprehensive Flood Grant Management Program as follows:

-Increase the State share from 50 percent to 75 percent and reduce the local share to 25 percent. The Comprehensive Flood Grant Management Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.

-Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.

-Provide relocation costs and a financial incentive to induce residents to relocate out of the floodplain.

8) Fully fund the State Catastrophic Event Fund. Create legislation to amend/augment the State's Catastrophic Event Fund as follows:

-Expand availability of the fund for use by local jurisdictions.

-Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year.

-Reserve certain funds for immediate disbursement following a disaster and/or to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share basis.

9) Investigate the use of volunteer resources in local jurisdictions for annual stream clean-up activities.

b. ALLEGANY COUNTY:

1) Continue to support stream restoration efforts in the Georges Creek area. The NRCS is coordinating with Allegany County, the Town of Westernport, and the State Highway Administration to implement special stream restoration activities in Georges Creek. The project will restore the Georges Creek stream channel in Westernport, from approximately 1,500 feet upstream of Waverly Street to the railroad crossing at the American Legion. Work involves acquisition of 20 residences and stream channel relocation.

2) Continue to support other current projects in Allegany County which mitigate flood damage. A list of these projects and the agencies involved in implementing them is at Tab 3.

3) Study existing Barton Reservoir to determine if breaching or reconstruction would be best to reduce existing safety hazards.

4) Remove deposition at the confluence of the Potomac River at George's Creek.

- 5) Investigate removal of deposition at the SHA bridge and installation of larger culverts in the vicinity of Maryland Route 36 at Elk Lick Run.
- 6) Relocate the existing Midland ballfield out of the 100-year floodplain.
- 7) Remove a box culvert structure from the abandoned railroad in the vicinity of Grahamtown (after determining actual ownership).
- 8) Assess the impacts from removal of the old CSX railroad bridge in the vicinity of Locust Grove.
 - Assess the use of pipe culvert in lieu of open ditch for stormwater conveyance adjacent to Vocke Road residences.
 - 10) Investigate floodproofing and structural retrofitting opportunities in the vicinity of Braddock Run.
 - 11) Repair concrete slope protection and study prevention measures along I-68 in the vicinity of Clarysville and Vocke Road.
 - 12) Provide information and education on stream restoration, floodplains, and floodproofing to floodplain residents and elected officials.

c. FREDERICK COUNTY:

- 1) Remove deposition at the U.S. Route 15 bridge over Flat Run near Emmitsburg.
- 2) Clear debris and deposition in Flat Run, and provide assistance to the Town of Emmitsburg and Frederick County to obtain needed permits.
- 3) Support Frederick County floodplain maintenance and floodproofing initiatives along to Flat Run in Emmitsburg to prevent future flood damage.
- 4) Survey blockage of culverts at other sites throughout the County.

- 5) Investigate mitigation measures (including roadway elevation and placement of flood relief culverts) to minimize future flooding on Maryland Route 26 at Israel Creek.
 - 6) Clear C&O Canal and towpath of debris in areas adjacent to the Brunswick Water Treatment plant.

d. GARRETT COUNTY:

- 1) Investigate possible mitigation measures to minimize future flooding at Maryland Route 39 in the vicinity of Crellin.
- 2) Retrofit (elevate) or floodproof 26 homes in Crellin in accordance with previous mitigation project proposal. Estimated cost of this project is \$671,000.
- 3) Floodproof Friendsville Water Treatment plant in accordance with previous mitigation project proposal. Estimated cost of this project is \$31,250.
- 4) Investigate opportunities to protect structures in Friendsville through floodproofing or isolating them from flood waters.
- 5) Continue Corps of Engineers road stabilization project in the vicinity of Shallmar; coordinate with CSX, NRCS, and MDE regarding hauling, dumping, and placement of fill.
- 6) Remove CSX railroad trestle above Shallmar.
- 7) Investigate clearing Potomac River channel near Kitzmiller.
- 8) Investigate streambank stabilization opportunities across from Abrams Creek.

e. WASHINGTON COUNTY:

- 1) Provide floodproofing/retrofitting assistance to the American Legion Post in Funkstown.
- 2) Floodproof Hancock waste water pumping station in accordance with previous mitigation project proposal. Estimated cost of this project is \$120,000.

3) Relocate Sharpsburg water intake to minimize the degree of maintenance currently required and prevent future flood damage.

in the vicinity of Granumtown Interprete Programs

national Asia description and interesting and the control of the c

3. IMPLEMENTATION PLAN: The purpose of the following matrix is to identify the potential agencies for each of the actions identified in Section 2. Lead agencies have not been identified, instead the agencies who will need to work cooperatively to address a specific problem area are identified. It is expected that through their cooperative efforts, the appropriate lead agency(s) and funding sources will be established. It is also expected that the local interests, whether contributing funding or not, will also play an active role in any action undertaken within their area of concern.

SIGNIFICANT ACTIONS REQUIRED (WITH AGENCIES RECOMMENDED FOR INVOLVEMENT)

GEORGE'S CREEK		MDE	ONE	SHA	CSX	COUNTY	FEMA
GEORGE'S CREEK						to play to play to play to play	
Cumort enocial etroam channel						na (e) nari u Illi	
restoration in the vicinity of	×			×		×	
Westernport (action also includes Town of Westernport)						u Lie uxs uu g nier	
Barton Reservoir creates safety	×	×				el e oel nib	acho acho acho acho
hazard - need to study to determine if breaching or reconstruction is needed						s el nut initi	D/I
Potomac/George's Creek confluence buildup (Includes CSX trestle/135 bridge)	×	×		×	×	approp iad. It fhuting faken v	wall as now of
RT 36 @ Elk Lick Run:						erbis ebis ebin nder	bear bear
Investigate deposition removal at SHA bridge and installation of larger				×	×	offorts be est ether mon t	is team.
Midland ballfield relocation (P.O.S.)			×				
Grahamtown:						eso desta desta in o	not
Removal of box culvert structure from abandoned railroad (ownership determination)	×				×	poo mon inte rolo	Sec Sec age
Locust Grove:							
Assess impact of railroad bridge removal		×			×	×	

			MUDE	DNK	SHA	CSX	COUNTY	USEWS	FEMA
Allegany County		INDIAN S		10000			EX LANGS		ACE
BRADDOCK RUN		TO WELDE							
LaVale:					-				
Vocke Road flooding (yards and basement) need to determine if pipe				e de la companya de l	×				
can be used in lieu of an open ditch									
Braddock Run:									
Investigate floodproofing & retrofitting opportunities			×				×		×
Clarysville & Vocke Rd.:									
Concrete slope protection and repair investigation (adjacent I-68)		Š			×	K X		*	
Allegany County:									
Provide information and education on stream restoration, floodplains, and floodproofing to floodplain residents and elected officials	E ×	×	× ·	X			×	×	

ж жалыны жалыма кеодинар

SIGNIFICANT ACTIONS REQUIRED (WITH AGENCIES RECOMMENDED FOR INVOLVEMENT)

ISSUE	NRCS	TOWN	MDE	NPS	SHA	NRCS TOWN MDE NPS SHA COUNTY
Frederick County						
FLAT RUN						
Emmitsburg:						
Deposition removal at Rt. 15 at Flat Run					×	×
Clearing of Flat Run through town (assistance			×			×
with permits)						
Support County floodplain maintenance and						
floodproofing initiatives.			×			×
Survey of culvert blockage (countywide)			×		×	

ISRAEL CREEK	
Israel Creek at MD 26:	
Investigate possible road elevation and flood relief	
culverts	-

POTOMAC RIVER			
Brunswick:			
Clear towpath/canal of debris adjacent to water	×	×	
treatment plant			

(WITH AGENCIES RECOMMENDED FOR INVOLVEMENT)

ISSUE	NRCS	FEMA	MDE	CSX	SHA	COUNTY	MEMA	USACE
Garrett County	() F46		(14) e 16					
YOUGHIOGHENY WATERSHED						el ma		
Crellin:								
Investigate Rt. 39 flooding issue					×			
Retrofit or floodproof 26 homes		×	×			×	×	8.5 C
Friendsville:								
Treatment plant floodproofing project	malon	×	×			×	×	
Possible fill project; determine if filling low spot in existing embankment will adversely affect other properties	×	147	×		4 5	470 S 000 F1	191 (XOD KIT HETERK TAL AB
POTOMAC RIVER Shallmar:								
COE road stabilization project: Coordinate with CSX, NRCS, MDE on hauling, dumping, and placement of fill	×		×	×	54 54 .	00 54,	5) 31	×
Removal of CSX bridge above Shallmar	×			×			W-2010(0)	AMA
Kitzmiller:	ACHMICHE			SECONDA		960 400.	255	
Look at clearing channel	×		×	×				×
Investigate bank stabilization across from Abram Creek	×		×					

(WITH AGENCIES RECOMMENDED FOR INVOLVEMENT)

ISSUE	NRCS	NRCS MEMA MDE	MDE	DNR		SHA COUNTY FEMA	FEMA
Washington County							
ANTIETAM CREEK							×1
Funkstown:							
Retrofit American Legion facilities		×	×			×	×
POTOMAC RIVER							
Hancock:					П		
Floodproof waste water treatment plant		×	×			×	×
Sharpsburg:					×		
Relocate water intake			×			×	

4. EXPENDITURES BY COUNTY (does not reflect SHA costs)

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND NRCS EWP FINANCIAL ASSISTANCE

ALLEGANY COUNTY	NRCS	COUNTY	TOTAL
June 1995 Storm (FY'95)	\$ 807,191	\$ 269,064	\$1,076,255
Blizzard 1996 (FY'96)	\$1,672,470	\$ 557,490	\$2,229,960
Hurricane Fran 1996 (FY'97)	\$3,675,000	\$1,225,000	\$4,900,000
TOTAL	\$6,154,661	\$2,051,554	\$8,206,215
	on me of the control		
GARRETT COUNTY	NRCS	COUNTY	TOTAL
June 1995 Storm (FY'95)	\$ 36,177	\$ 12,059	\$ 48,236
Blizzard 1996 (FY'96)	\$ 401,960	\$ 133,987	\$ 535,947
Hurricane Fran 1996 (FY'97)	\$ 75,000	\$ 25,000	\$ 100,000
TOTAL	\$ 513,137	\$ 171,046	\$ 684,183
FREDERICK COUNTY	NRCS	COUNTY	TOTAL
June 1996 Storm (FY'96)	\$ 300,000	\$ 100,000	\$ 400,000

encrease on CFMSF obstracting obtained resemble 1800 two to

5. Conclusions and Recommendations

a. Conclusions:

- 1) Allegany County, specifically the Georges Creek and Wills Creek watersheds, received the most devastation from the three flood events from June 1995 through September 1996.
- 2) Twenty federal and state agencies have varying authorities by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.
- 3) To effectively minimize the impacts of flooding on the citizens in western Maryland, ecosystem restoration and land management must be targeted for each watershed.

b. Recommendations

1) Purchase and remove 276 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.

COST: Acquisition and demolition of identified structures/properties is estimated at approximately \$11.9 million. It is recommended that funding be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3 million) and federal (\$1.1 million) funds are currently available which require a local cost share.

2) Identify and assist in funding floodproofing methods for individual home and business owners through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.

COST: Currently being estimated.

3) Immediately restore streambeds and affected infrastructures to their condition prior to storm events. Immediately remove debris from prior storm events from affected waterways.

COST: The Natural Resources Conservation Service of the U.S. Department of Agriculture has been authorized to spend approximately \$6.1 million since January 1996 to implement the above activities. This cost includes a 25% local share in either cash or in-kind services, which represents a total project cost of \$8.2 million.

4) Where feasible, remove waterway blockages (e.g. old dikes, dams, trestles, etc.) to allow the free flow of flood waters.

COST: An estimated cost for removal is not available at this time, pending final identification of structures for removal. Costs of removal should be shared by the owners of the structures.

5) Work with Federal officials and the insurance industry to streamline payment of flood insurance claims.

COST: Unknown; efforts of available staff could be focused toward this recommendation.

6) Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.

COST: Unknown; efforts of available staff could be focused toward this recommendation.

7) Create legislation to amend/augment the State's Comprehensive Flood Grant Management Program as follows:

-Increase the State share from 50 percent to 75 percent and reduce the local share to 25 percent. The Comprehensive Flood Grant Management Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.

-Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems. -Provide relocation costs and a financial incentive to induce residents to relocate out of the floodplain.

COST: Recommend that the amended Comprehensive Flood Management Grant Program seek bond authorizations at a level of \$1 million annually for State Fiscal Years 1998, 1999, and 2000 to facilitate property acquisitions and other recommendations of this report.

- 8) Create legislation to amend/augment the State's Catastrophic Event Fund as follows:
- Expand availability of the fund for use by local jurisdictions.
- -Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year.
- -Reserve certain funds for immediate disbursement following a disaster and/or to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share basis.

COST: Recommend that the amended Catastrophic Event Fund be maintained at a level of \$5 million.

9) RECOMMENDATION: Implement currently proposed elevation and construction mitigation projects.

COST: Estimated total cost of these projects is \$822,250. Funding required should be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years.

SHORT-TERM ACTION PLAN

TAB 1

ONGOING IMMEDIATE ACTIONS

PROJECT STATUS

USDA, Natural Resources Conservation Service Emergency Watershed Protection

IFB / RFG			or date where the state of the	i•		*	-		•	26		9		ග	0	9		9		9	:	9		9
Estimated Cost	175,000	57,000	43.000	13,000	75.000	2	43,000	,	20,000	38,100	4.500	6,155	10,000	4,000	2,000	7,300	31,000	3,800	4.800	6,800		6,800	30,000	4 300
				2	2	-	NY \$	37	S	i i	vo ≥	2	3	M S	my \$	my \$	my \$	w Au	e A	my \$	my y	my &	À	NV.
Town of County	Barto	Barton	Barto	Allegamy	Alegany		Allegany	Allegany	Barton	Garrett	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Alegany	Allegany	Allegany	Allegany	Allegany	Allegany
Protects	Homes, Sewer, Garage	Homes, Shed	Drwy Bridge, Shed	County Road	County Road, Drwy	County Road, Drwy	Bridge	County Road	Dam, Gravel Road	Bridge	Invertion	Manhole	Road	Homes	Homes	Home	Pool	Garage	Road	Home	Bridge / Road	Bridge	Home	Home
Wark	Gabions, Concrete, Deposition	Riprap	Underpin, Gabions, Deposition	Gablone, Deposition	Concrete wall,	Underpin, Gabione,	Deposition	Out by County	Riprap	Riprap	Deposition	Deposition, Riprap	Deposition	Deposition	Deposition	Deposition	Gabione	Deposition	Deposition	Deposition	Completed by owner	Deposition	Gablona	Deposition
Site Neme	yder	36	. Me	Bartett & Walnut				24121		Cemetary Rd. Bridge	Cumberland Concrete	Orts Fiber Mill	D.S. Orts	Bridge Street	Mustaphal Street	Santa Fe Street	Mason Property	Radcilli Property	Oaklawn Ave.					
Wefershed	Bartlett Run	Bardett Run	Bartlett Run	Bertlett Run	Bartlett Run		Bartlett Run	Bartlett Run	Barden Run	Bear Creek	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run
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Priority	4	6	v	9	7		-		0		-	10				7	8	12	=	80	8	=	1	13
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Legend: S - surveyed

D - designed

B - Bid Package/ Under Contract

C - completed

H - Hold

FEMA DSR

IFB/RFQ		-	12 12				=	•	28	9			-	9	1	1	019	1	1	9 0		9
Estimated Cost	\$ 175,000	\$ 57,000		\$ 13,000	\$ 75,000		43,000	\$ 20,000	\$ 38,100	\$ 4,500	6,165	10,000	\$ 4,000	2,000	1,300	31,000	0000	910	9	8,80	30,000	\$ 4.30
Town or County	Barton	Barton	Barton	Allegany	Allegany		Alegany	Barton	Garrett	Allegany	Allegamy	Allegany	Allegany	Allegamy	Allegany	Allegany	Allegany	Allegany	A STATE OF THE PARTY OF THE PAR	Allegany	Allegany	Allegany
Protects	Homes, Sewer, Garage	Homes, Shed	Drwy Bridge, Shed	County Road	County Road, Drwy Bridge	County Road, Drwy	Bridge	Dam, Gravel Road	Bridge	Inventory	Manhole	Road	Homes	Homes	Home	Pool	Garage	Mosd	4	Bridge	1	Home
Work	Gabions, Concrete, Deposition	Riprep	in, Gabions,	Deposition		Underpin, Gabions,	Deposition	Riprap	Riprap	Deposition	Deposition, Riprap	Deposition	Deposition	Deposition	Deposition	Gabions	Deposition	Deposition	Commission	Deposition	Gabions	Denosition
Site Name	Snyder	Kitzmiller		Barlett & Weinut	Vina		100.14	Reservoir	Cemetary Rd. Bridge	Cumberland Concrete	Orts Fiber Mill	D.S. Orts	Bridge Street	Mustaphai Street	Santa Fe Street	Mason Property	Radollii Property	Oakiawn Ave.	1	West St. Bridge	l	1
Wefershed	Bardett Run	Bartlett Run	Rantett Run	Bertlett Run	Bartlett Run		Bartlett Run	Bartet Run	Bear Creek	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Diaddock Run	Braddock Run	Braddock Run	Braddock Run
Status		0		0		-	- 1			9	1		1	3 3				- 1	- 10	-	1	1.
Priority	•	67	v	9	2	-	-	8		-	10				2	9	12	-	000	=	1	1.3
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Legend: S - surveyed
D - designed
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C - completed
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- FEMA DSR

USDA, Natural Resources Conservation Service Emergency Watershed Protection

PROJECT STATUS

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	1,500	4,000	20,000	40,000	009	009	2,000	1,200	200			2,000	15,000	2,000	30,000	2,000	2,000	10,000	0000	16,200
County	Allegany \$	-		-	1	1	1 1	Garrett	Allegamy \$	1	Allegamy	Allegamy	Allegamy \$	Allegany \$	Alegany \$	Alegany \$	Allegamy	Alegamy	Allegany	Allegany
	Home	Home	Businese	Utility / Sewer	Road / Culvert	Houses	Road	Bridge	Yard, House	Yard, House	Yard, Garage	House	Shed	Bridge	Co. Road	Co. Road	Wall	Co. Road	Co. Road	Co. Road
	Tree Removal	Deposition	Gabions	Gebions / Riprap	Deposition	Deposition	Deposition	Deposition	Debria	Gabions	Debris	Deposition	Regisp	Caposition	Gablons	Deposition	Deposition	Gablons	Gablons	Gablons
	Suzanne Brandenburg	Day	Super 8	LaVele Plaza	Robert Laber	Laber	Harwood Drive	Bridge #72	Donahue	Hertman	Boyd	Gimore	Skidmore	R.R. Trestle / Rt. 36	Buskirk / Bridge	Loar	Jacobs	Drew	Bennett	Brode Rd
	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Braddock Run	Buffelo Run	Dry Run	Dry Run	Dry Run	Eldck Run	EMICK Run	Elklick Run	Elklick Run	Eiklick Run	Elklick Run	Elklick Run	Elklick Run	Elidick Run
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Legend: S - surveyed
D - designed
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C - completed
H - Hold

USDA, Natural Resources Conservation Service Emergency Watershed Protection

PROJECT STATUS

Ske No.	Priority	Status	Wetershed	Sile Name	Work	Protects	Town or County	Estimated Cost	
1		1		Hardman	mbricated Riprap	Road	Allegany	3,600	0:0
1		010	1		Gabione	Road	Allegany	16,400	2 5
					Gabions	Road	Allegany	008.61	200
0				-	Caklone	Road	Allegany	33,500	30
0			1	1	200000	Dand	Allegany	3,279	13
	2			-	Deposition		Allegeny	3 279	13
1	1				Debris	Rubina	Name of the last o	00000	-
1	-	1		Michaels Road	Concrete	Co. Road	Allogally	200	-
87	1	1		Wilson	Cancrete	Bridge	Allegany	000	1
			1		Danosition	Bridge	Allegany	3,278	13
	9	8		1	TO STORY OF THE PARTY OF THE PA	1 Miles	Allegany	10,000	
1	-				Riprap	ROBINO	Allegen	2000	
1	-			Grim	Gablons	House	Zingsolly	20000	-
11	7		Evitre Creek	Granet	Gabions	Pond	Allegany		
				Mouth @ George's		action of the second	Westernoor	\$ 100,000	
	12			Creek	Deposition	201100	Mandarmont	57 800	
1	-	0		Westemport Legion	Imbricated, Riprap	ношон	A CORPORATION OF THE PARTY OF T	2000	
1		1	George's Creek	D.S. R.R. @ Legion	Deposition	Building	Westernport	9000	
			1	D.S. Waverly St. D	Deposition	Ношев	Westernport	\$ 530,000	
			1	U.S. Waverly St.			Mactemont	200 000	
	10			Bridge	Deposition/Gabions	Lomes	No second	200 48	
9 8	36	-	George's Creek	Duckworth	Imbricated, Riprap	Budge	Allegany	200	
		-	George's Creek	Duckworth Trib	Deposition	Road	Allegany	00000	100
	-	0	George's Creak	County Sewer	Riprap	Sewer	Allegany	200.75	
5		2	Tanana Canada	Green	Deposition	Ноше	Alegamy	3,40	
0 0	-	-	A STATE OF THE PARTY OF THE PAR	Kimmell	Deposition	Home	Allegamy		
	4.7	1	O September	Morrison	Concrete	Bridge	Allegany	\$ 68,01	
2	=	a	Gaora's Crept	Steel Bridge	Riprep	RR & Bridge	Allegany	37,000	18
5	28	2	George's Creek	R. Tresfe / Mill Run	Deposition	Bridge	Allegany	4.00	1
				Reynolds Rd (Yellow	Denosition	Homes	Allegany	\$ 80,000	0

Legend: S - surveyed
D - designed
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- - FEMA DSR

PROJECT STATUS

USDA, Natural Resources Conservation Service Emergency Watershed Protection

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TROO BALLANIA	\$ 6,660	15,000	\$ 13,338	15,000					000,000	-	\$ 20,000	\$ 20,000	\$ 48,000	\$ 20,000	\$ 24,600	2,000	5,400	2,000	40,000	2,500	2000	68,250	20,000	\$ 2,500	9	14,000	2000	000	000	\$	20.000
County	Allegany	Allegamy	Allegany	Allegeny	Allegany	Barton	Barton	Berton	Barton	Barton	Allegany	Allegeny	Allegany	Allegany	Allegamy	Allegany	Allegany	Alegany	Alegamy	Alegeny	Аледану	Alegany	Alegemy	Allegany		Allegany	Allegany	Allegeny	Allegany	Allegany	Longconing
Protects	Homes, Roads	Sewar	Homes, Roads	Sewer	Homes	Bridge	Home	Sewer	Firehall, Waterline	Bridge, Road	Нотев	Bridon	Homes	Homes	Homes	Homes	Homes	Homes	Homes	Homes	Homes	Homes	Homes	Ношев		Family Center	Homes	Homes/Roads	County Road	School	Homos
Work	Deposition	Gabions	Deposition	Riprep	Deposition	Gablons	Deposition	Riprap	Concrete	Gabions	Deposition	0	Deposition	Gabions	Deposition	Debris	Deposition	Deposition	Deposition	Debrits	Deposition	Gablons	Gabions	Deposition		Impricated, Riprap	Deposition	Deposition	Deposition	Deposition	Daniel Man
Site Name	-	-	=	_	-						D.S. Temperance Bridge	U.S. Temperance	Temperance Row	J. Miller/Temperance	Moscow / Jenkins St.	Gowans						Pekin North	Shewbridge / Pekin	N. Pekin @ Rt 36	Defmold (Family	Center)	Johnson	Mesipine	Westmar High 1	Westmar High 2	711 111
Watershed		1	1	:	1	100	120	H34	100	George's Creek	100	Maria Inc.	George's Creek			4	1												George's Creek		
Status	Ī	1	0	1			es			1		1										8	111			٥		æ	1	o	1
Priority	24		-			28	28		1	4			4	,	-		8	-				13	52			27	36		-	33	1
Sits No.	13	14	15	18	18A	11	88	9	20	21	22	1	23	28	28	27	28	29	30	31	31A	32	23.3	34	9	35	38	37	38	38	1

Legend: S - survayed
D - designed
B - Bid Package/ Under Contract
C - completed
H - Hold

- - FEMADSR

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Protects	Homes	**		200		Bridge	Homes	Homes		Louise	Home	Bisinses	To see a see		Road, Bridges,	Dunding, Talang	Hose	2000	CO. NOBEL	Homes	House	Ballkelds	Ulleway	Houses	Floodwall	April.		Homes / Bridge /	Sewer	Parking Lot	Lower Town
Work	Denosition	- Consense	Concrete	Riprap	Concrete	Concrete	2000	Collocia	Deposition	Concrete	A. Linns	Capions	Ribrep	Deposition	1	Deposition	Deposition	Deposition	Deposition	Deposition	Deposition	Deposition	Riprap	Deposition	Deposition	Deposition	Concrete		Deposition	Gablon	Gabion
Sile Name	14.0	1	Republican Club 2			The state of the s	-		-	Shockey		20		RR Treste / N Coney		George's Creek Elem.	Elem. / Brodle Rd.	Macalpine/Brodle Rd.	Co. Rd. Dept.	Hartman's Curve	Jacobs / Gilmore	Midand Balffeld	Lease	Miller / Midland	Otto / Midland	R.R. Ave. / Midland	Smyer		Island	American Legion	Allohiancola
Wetershed		George's Creek	George's Creek	George's Creek		1		113	George's Creek	George's Creek		George's Creek	George's Creek	George's Creek		George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek	George's Creek		Jackson Run	lackson Run	
ity Status		8	0	0	+		٥	8	8	0		8	8	8		93 B	31	1	37 8	1		2	or.	30	100	0	35		9		1
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Legend: S - surveyed
D - designed
B - Bkd Package/ Under Contract
C - completed
H - Hold
- - FEMA DSR

PROJECT STATUS

USDA, Natural Resources Conservation Service Emergency Watershed Protection

מושל של	213	30	30		30	10	2!				36		34	34	*	-	4				18		*	7		13	7	19	14	14
	16,950	17,315	29,150	9,000	17,100	128 000	2000	3,000	1,200	2,900	14,450		6,250	20,700	3,268	2,000	3,268	2,000	2,000	40,000	49,000	000	3,266	3,268	10,000	18,000	3,268	16,500	3,268	3,268
Town or County	Lonaconing \$	Lonsconing \$	Lonaconing \$	Loneconing \$	Loneconing \$	- Constitution	Conacorning	Conaconing	Longcoring 5	Lonsconing \$	Lonsconing	Loneconing	Alegeny \$	Alegany \$	Allegamy \$	Allegamy \$	Allegany \$	Allegany	Allegany	Allegeny	Alegany	Allegany	Allegany	Alegany	Allegany	Allegany	Alegamy	Allegany	Allegany	Allegany
Profects	Line		Home		Road			Ноте	Ноше	Ноте	Bridge	Bridges	Bridge & Bank	Bridge & Bank	County Road	Houses	Public Road	House	Houses	County Rd., Houses	Bridge	House	Public Road	Buildings	Bridge	Bridge	County Road	Bridge	Bridge	Bridge
Work	Concrete	Concrete	Gabion	Deposition	Rprap		Gabions/Riprap	Deposition	Deposition	Deposition	Concrete	Out By Landowner	Riorep	Ripren	Deposition	Debris Removal	Deposition	Deposition	Deposition	Gabione, Riprep	Gabions	Tree Removal	Deposition			Gablons	Deposition	_	_	_
Site Name	dley	1		1	1	Robin Robin	22 DSR		The state of the s			E	Prosety Road/Bridge	Minlenax	Hite/Route 36	O'Baker	Rt. 36/Portertown Rd.	McKenzie	Woodcock Hollow 1	Woodcock Hollow 2	Bowers	Bloss	O'Baker	Lons Club	Poling/Mt. Savage	Frankenberry	Foundry Row	Rice/Slabtown	Whitehead/Zhiman	IRd-E-14 Chillman
Watershed	Jackson Run		Jackson Run	Jackson Run	Jackson Run	Jackson Run	Jackson Run	Jackson Run	Janologa Run	landine Rim	Jennines Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run	Jennings Run					
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Legend: S - surveyed
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County	Allegany \$		991		+	A BOOK		Lonaconing \$	Lonsconing \$	Lonaconing	Lonaconing \$	Consconing	Consconing	Longconing	Allegany	Auegany	Amegany	Alegany	A Second	Allegany		1000	120		
Protects	Bridge - No Demage	Bridge	Bridge	Didae		BUOLD	Bridge	Bridge	Roedway	Road	Bridge	Rosd/Drwy Bridge	Phone Pole	Bridge	Budges	Road	Bridge	Bridge	Roadway	Bridge / Road	House / Shed	House, Bridge, Shed	Drwy Bridge	Drwy Bridge	Bridge
Work	Concrete	Denosidon	Concrete		Deposition	Concrete	Deposition	Gebion	Gabions	Gabions	Gebion	Gabions	Riprap	Gablon	Concrete	Geblons			Debris Removal	Concrete	Denethon	Buk Prici	Concrete	Concrete	Concrete
Site Name		1	1	-			Wright/Zhilman	South Hill Boad	Wilhelm	Beachwood	Buskirk			James Vinci	Double Bridges	Pole # 47	Bridge #2	Bridge #5	Old Substation Bridge		Glen Met.	NAIM NAIM	17407	17403	Bridge #1
Watershed	Janahas Run	Camping Com		Jennings Kun	Jennings Run	Jennings Run	Jennings Run	0.0	Moonit Run	Coople Dun	Koonty Run	Koontz Run	Koontz Run	Koontz Run	Koontz Run	Koontz Run	Koontz Run	Koontz Run	Koontz Run		Leurel Run	Laurel Run	Airel Run	Laurel Run	Laurel Run
ly Status	1	1	1				8	-	1	1	0 0	1	i.	8	-		I	Ŧ	07			-	7	3	-
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Legend: S - surveyed
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• - FEMA DSR

PROJECT STATUS

USDA, Natural Resources Conservation Service Emergency Watershed Protection

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	3,200	2,000	4,250	2,000	13,200	2,000	7,650	1,700	5,000	47,000	7,450	5,000	14,000	20,000	2,000	2,000	2,000	2,000	13,520	-	\$ 13,520
County		Allegany 5	Allegany \$		Allegany \$		Garrett	Garrett	Midland \$	Midland \$	Allegany \$	Allegany	Allegany \$	Allegany \$	Allegamy \$	Allegany	Allegany	Allegany	Shellmer		Shallmar
Projects	County Bridge	Drwy Bridge	Drwy Bridge	County Road	County Road	Home / Shed	Bridge	Bridge	Weil - No Damage	Weite	Bridge	Co. Road	Sewer Line	Bridge	Co. Road	Garage	House	Co. Road	Road	Road	RR Bridge
Work	Concrete	Riprap	Concrete	10000	Cablons	Riprap	Concrete	Deposition	Concrete	Concrete	Concrete	Denosition	Rlorap	Concrete	Deposition	Concrete	Deposition	Deposition	Deposition	Deposition	Deposition
Site Name	4506	hurch	J. Cheng	O COLOR	60/4/	Miller	Bridge #82	Bridge #84	Midland-Rt 36	Midland	Coleman	McKingey /Devlin	Kroll	Flaher	Jenidne	Robertson	Clise	Miller		Short Run	RR Bridge
Watershed	Mill Run				;	Mil Rim	Mil Bun	Run	New Bus									Neff Run	N Branch Dolomes	N Branch Dolomes	N. Branch Potomac
Stefus							I	x			0			2 0	1	æ	1				0
Priority	-	9		2	5	7			4			2	2	3	7	A		9			
Site No.	-		7	7	-	0 4	-	-2		-	7	7	-		-		0	, 0	•	- (20

Legend: S - surveyed
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C - completed
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USDA, Natural Resources Conservation Service Emergency Watershed Protection

PROJECT STATUS

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County County	Allegany \$	Allamonu	Victory.	Allegamy	Alegany	Allegamy	Allegamy	Allegany	Allegeny	Allegany	Alegany	Afanany	The state of the s	Aisflair	Allegany	Allement	Michally	Allegany	Allegany	Allegeny	Allegany	Alegany	Alegeny	Alegeny	Allegany	Allegany	Allegany	Alleosin
Profects	Sewer Treatment		Driveway	Field	Lawn	House	Road Culvert	Bridge / Camp	Road	House / Culvert	Bridge		Home		D. A. C.	Convers	Trailer / Bridge	Gabiorrs / Road	Culvert / Home	Culvert / Road	Road	Culvert / Road	Outbuilding	House / Business	Business	Business	Pasture	House
Work		OII Kelliovei	Gablons	eposition Removal	eposition Removal	eposition Removal	eposition Removal	eposition Removal	eposition Removal	Deposition Removal		Concrete	Riprap			Deposition Removal	Deposition Removal	Concrete	Riprap	Deposition Removal	Deposition Removal	Deposition Removal	Concrete	Deposition Removal	Concrete	Gabions	Deposition Removal	-
Site Name						1				Silder				Potomac St. Bridge		MRI	Tradewinds		Frost					Pinto / Orchard Mews	Yoder Bridges	Yoder Const. Yard	Don-Yoder - Pinto Rd.	
Wetershed		Oldtown			Carlotte and Carlotte					Oldtown		Potomac Hollow	Potomac Hollow	Potomac Hotow		Rt. 220 South	Rt 220 South	Rt 220 South	Rt 220 South	Rt 220 South	Rt. 220 South	Rt 220 South	Rt 220 South	Rt 220 South	Rt 220 South	Rt 220 South	Rt. 220 South	
Status		8	07			1	T	Т	1	00						8		0	-	-	0	0	0	0		0	8	-
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Legend: S - surveyed
O - designed
B - Bid Package/ Under Contract
C - completed
H - Hold
• - FEMA DSR

Page 9

Symptom.

USDA, Natural Resources Conservation Service Emergency Watershed Protection

PROJECT STATUS

7	22	22	77	22	22	22	23	22	23	23	77	230	33	23	200	22	22	33	336	316	22	77				
_	1,766	1.786	1,786	1,786	1,786	1,786	10,540	1,786	\$ 2,080	\$ 26,200	1786	200	200	2000	20,400	700	700	200	200	2000	200	00/1	1,500	1,500	\$ 75,000	
County County	Allegany \$	Alegany	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Allegany	Allegeny	Allegany	Allegany	Allegany	Allegany	Allegamy	Allegemy	Allegamy	Allegany	Allegamy	Allegally	Allegany	Alegeny	Froetburg	Froetburg	Garrett	Gamen
Protects	Yard	Feetbridge / Yard	Homes	Home / Highway	Bridge / House	Garade	Bridge	Home	Home	Home / Carport	Highway	Home	Road / Ford	House	Bridge / Septic	Bridge	Bridge	Bridge	Yard	House	Pond	House	I ane / Barns	Parking Lot	Road	Road
Work	Deposition Removal	Deposition Removal	Denosition Removal	Dancetton Removal	Dancatton Remove		1	Denoaition Removal	Riotab	Gabions	Deposition Removal	Deposition Removal	Deposition Removel	Deposition Removal	Gablons	Deposition Removal	Deposition Removal	Deposition	Deposition Removal	Gablon	Deposition Removal	Deposition Removal	Dancellin	Deposition	Riprap	Denochon
Site Name	1	1	1	-	1	1	Unckworm	Med	Mapage	IIIIIIIIII				Bittinger	Van Pelt	Pheasant	Bittinger	Dur	Kyle	Jamison	Nature Conservancy	Haines		TING.	Woodyard / Luke	Dry Mun
Wetershed	1	1	1	1		1	1		1						1	1	1	de	1		1	Rt. 220 South		Sand Springs Run	Savege River	Savage River
Status	1	1		-	201	- 1	- 1		- 1		-	-				100				100	1					9
Priority		47	67		17	-	13	7	9	0	7	-	7	27	-	- 11		W	28	4	200	300				-
Site No.	1	*	0	9	11	00	6	20	2	22	57	47	200	27	200	300	300	3	33	200	200	5 65		- 2	-	7

Legend: S - surveyed
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C - completed
H - Hold
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USDA, Natural Resources Conservation Service Emergency Watershed Protection

PROJECT STATUS

		27	27	27						2	13	13	13	13	13	13	2			90	2 0	67
	16,000	23,250	14,600	23.250	20 000	-		20,000	2,000	200	1,200	2070	3278	3 279	3.279	3,279	3,278	8,000	70,000	\$,000	000	10,000
Town or Esti	Garrett \$	Garrett	Garrett \$	Garrell	Canal	T	1 1 - 1	Allegany \$	Allegany	Allegeny	Alegeny	Missing	Allegand	Allacany	Allegeny	Allegamy \$	Allegeny \$	Allegany \$	Allegamy	Allegany \$	Allegany	Allegany 3
Protects	Road	Road	0000	Didos	200	Douges		Road	Bridge	Bridge / Fleid	Field	Field	Budge	Culvery Troops	Flats	Field	T EE	Home	Road	Houses	Co. Road	Bridge
Work	Denoetton					Deposition	THE STREET	Stream Restoration	Deposition	Deposition	Dike	Deposition	Riprap	Deposition	Deposition	Cepostion	Deposition	Dannathon	Concrete	Deposition	Gablons	1000
Site Name	Change Change	Oadwaler Clieber	OI POPIEI LICH	of Popiar Lick	emil Bridge	Pea Ridge Spur		Baptist Church	Ancaster	ckard	Heavner	undrick	oter	day	lackson	Browning I	Browning 2	la Plant	Sugar Maple Rd	Lencester	McGowan	а,
Watershed		1				Savage River P		Stoney Run B	Tour Creek								Town Creek	11	Umamed Trib	Old Dens Rock Rd.	Old Dans Rock Rd. N	
Stabre					8	a		۵		1	1	1	8				m @				8	-
Priority							-		1	-	9		10	4	2	7	00				-	,
No.	1	+	en	9	1			-		- 6			40	9	1		e 2		-2	-		4

Legend: 3 - surveyed
D - deelgned
B - Bid Package/ Under Contract
C - completed
H - Hold
- - FEMA DSR

USDA, Natural Resources Conservation Service **Emergency Watershed Protection**

PROJECT STATUS

PB/RFQ	58			33.		33									
Estimated Cost	2,000			\$ 27,259	\$ 14,650	\$ 25,950	5,000			 100,000				9 0,06,45	
Town or County	Allegany	Allegeny	Allegany	Allegany	Allegamy	Allegamy	Allegany	Allegany		Allegany	Amedania				
Profects	Bridge / Weirs	Co. Road	Bridge	Road	Road	1 ana/Bridge	Shed	Dridgo/Doed	DUMBANAGA	Business					
Work	Concrete	Imbricated Riprap	Concrete	Cablone	a political	Capion	Capion	Capions	Concrete	Riprep	Debrie				
Site Name	Simpson	Tumer	County Bridge	7	Kalload	1	흾	2	8	I. A. Yard	Locust Grove				
Watershed	Old Dane Rack Rd		Old Dans Rock Rd.		Water Station Run	Warter Station Run	Water Station Run	Water Station Run	Water Station Run	Wile Creek	Wille Creek				
Stafue	a	3 7	I		8		8	Ø	9						
Priority	c	**	, -		7		-	က	+						
Site No.		•			-	1	7	~	4	-	-21				

Legend: S - surveyed

D - designed

B - Bid Package/ Under Contract

C - completed

H - Hold

• - FEMA DSR

Status Listing

Frederick County
Emergency Watershed Protection Program
Site Location and Priority List
JUNE 1996 STORM
* under contract
** complete

PRIORITY	SITE	HAME	DESCRIPTION	COST	ACTION	IN KIND COST
:	36	Hampton Valley Rd at Annandale Rd	Concrete/Debris	\$	NRCS	
2 :	15	Grant Abrahams (Turkey Creek)	Debris/Concrete	6	NRCS	
	10	Kelbaugh Rd at Smith Rd	Gabion/Debris	05	NRCS	
6.1%	5	Total this contract	Company & Color La	\$ 88,621.82	83	
TENNET I	NATE OF THE PARTY	NA COLUMN TO SERVICE STATE OF THE SERVICE STATE OF	THE PERSON NAMED IN	9085	Vol. 1981	IN KEAR CORK
:	1	Poffenenberger Rd at Catoctin Creek	Gabion		NRCS	
:	38	Corun Road @ Poffenburger Rd.	Deposition	co-	NRCS	
1	-	Total this contract	SELECTION CONTROL OF THE CONTROL OF	\$ 87,690.00	00.	
5	12	Bylers Valley Rd (Little Owens Creek)	Deposition		NRCS	
:	11	Fred Purhman	Deposition	s	NRCS	
8	8	Rodman Myers (up to Kelbaugh Rd)	Deposition	es	NRCS	

Status Listing

b how I aged

Frederick County
Emergency Watershed Protection Program
Site Location and Priority List
November 16, 1996
" under contract
" complete

PRIORITY	SITE	NAME	DESCRIPTION	COST	ACTION	IN KIND COST
** 1	16	Hampton Valley Rd at Annandale Rd	Concrete/Dobris	s	NRCS	
2	15	Grant Abrahams (Turkey Creek)	Debris/Concrete	S	NRCS	
. 3	3.0	Kelhaugh Rd at Smith Rd	Gabion/Debris	v,	NRCS	
		Total this contract		\$ 88,621.82	82	
			Section 2 hours	2005	•	
	7	Poffenenberger Rd at Catoctin Creek	Gabion	ø	NRCS	
:	38	Corun Road @ Poffenburger Rd.	Deposition	er	NRCS	
		Total this contract	15 07 T 100 D	\$ 87,690.00	00	
			a Brown particular Story			
\$.	12	Eylers Valley Rd (Little Owens Creek)	Deposition	us.	NRCS	
•	17	Fred Purhman	Deposition	vs	NRCS	
60	6	Rodman Myers (up to Kelbaugh Rd)	Deposition	es	NRCS	

:	20	Dawn Barly	Deposition	8	NRCS	0 30 355
9	80	Franklinville Rd at mini mall	Deposition	**	NRCS	
7 **	27	Black Mills Road (Hunting Creek)	Deposition	\$	NRCS	THE REAL PROPERTY.
	45	Runkles	Deposition	s	NRCS	1 Shabi
	3	Total this contract	No contraction of	\$ 54,615.23	23	
	1		Li sodin di primati di	and Through	HOME BUT	
E1.	25	Talbot Run Rd (Talbot Branch)	Gabion	\$	NRCS	-
7:	26	Black Ankle Rd (Talbot Branch)	Gabion	S	NRCS	-
		Total this contract		\$ 40,419.00	.00	4
	1		not s Table 1	1000	- Opposition	dort #
6 :	444	Reichs Ford Road (Trib to Bush Creek)	Gabion	•	NRCS	
**10	448	Reichs Ford Rd. (Trib to Bush Creek)	Gabion	**	NRCS	-
17.	2	Thurston Rd (Bennetts Creek)	Gabion	45	NRCS	77
		Total this contract		\$ 48,641.41	.41	
			n l'adde	200.00	No. of the last	
:	47	Russell Baker (Harmony)	Encasement	es-	NRCS	
**15	19	Steve Springer / Watermain (Annandale Road)	Gabion/RipRap	\$ 35,400	NRCS	
**15	30	Watermain (Tom's Creek @ Annandale Bridge)	Encasement	s»	NRCS	
91.00	33	Watermain (Tom's Creek & Annardale Road)	Encasement	or	NRCS	

	34	Watermain (Turkey Creek @ Andrew's)	Bucasement			
		Total this contract		\$ 35,409.70	70	
100	2		100000000000000000000000000000000000000		2000	
:	22	Russ Horman (Middle Creek)	Debris	\$ 2,500.0	2,500.00 NRCS	
				1340.10		
:	28	Daniel Trey (Friends Creek)	Debris/RipRap	5	SPONSOR	8
:	3	Tom Sheralds on Annandale Road	Deposition	s	SPONSOR	s,
:	18	Kelbaugh Rd at St. Anthony Rd	Debris	s	SPONSOR	s
:	=	Pishers Hollow Rd (Driveways) (trib Catoctin C)	Deposition	s	SPONSOR	us.
:	39	Pishers Hollow Road (Unnamed trib to Catoctin)	Deposition	\$	SPONSOR	\$
:	40	Brethren Church Road (Catoctin Creek)	Deposition	s	SPONSOR	s
:	Ī	Davidson (Bennetts Creek)	Debris/RipRap	\$	SPONSOR	v.
	23	Price's Distillery Rd at Haines Rd	Debris	\$	SPONSOR	s
:	35	Weller Road near Lynn Burke Road	Debris	S payans	SPONSOR	•
		Total In-kind cost	Below 12 The		W KINCE	\$ 20706.08
Work cos	pleted	Work completed under NRCS contracts:	COST	\$ 357,897.16	.16	
Work con	pleted	Work completed by the sponsor (in-kind projects):	TSOO			\$ 20,706.08
		Soulmen Pyers, typ to Sethworth Ad)				

Sycaposous

other 0 rights, time, money, accessibility, land due to completed Vere

PRIORITY	SILE	ACOUNTY AND ACOUNTY AND ACOUNTY AND ACOUNTY AND ACOUNTY ACOUNT	DESCRIPTION	RSTIMATED	COST	ACTION	IN KIND COST
15	32	Natermain (Turkey Creek & Miller's)	Kncasement	65	10000	HRCS	
12	21	Below Hampton Rd and Annandale Rd	Debris/Headwall	67	18500	NRCS	or Gr
15	33	Natermain (Turkey Creek @ A trame House)	Bncasement	s»	3000	NRCS	
15	42	Turkey Creek @ Reservoir # 1	Deposition & ?	to-	16500	NRCS	00.1 00.0 00.0 00.0 00.0 00.0
	36	Tom Hattery	Gabion	c)	18000	NRCS	
	13	Eyler Valley Church	Debris	es.	1400	SPUNSOR	\$ 1400
	37	Weller Ros	Debris	co-	2000	NRCS	7 E
	Street and preform toward modification make streets expense. Our next mostly	Emmissions of appears flow problems obstructions of appears flow problems abstract flow problems while to perform a joint disposition, and MIDS to perform a joint disposition, and for south possible. MID 26 over formal Creak (Frederich examts, with no significant observations and and south flow the bong to done, and sou if there are any long to bridge of the roadway is lowed than the bridge observation of the bridge observations. This impendion was definitionally perform impendion was definitionally perform impendion was definitionally performed washes was performed. Administration was definitionally and others will among a feature of the country and others will among a failery country and others will among a failery.					

FROM NAUS MU SI CEFTUL TIL

Packer P. Williams

MARY AND DEFARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION District Six

. Wallace Ectuirou District Engager

De out L. Winstead Scencery

> Pred Cromer AML DUS. ELET.

1251 Vocke Road LaVale. Maryland 21502 (301)729-8455 FAX(301)729-6968 DISTRICT SIX MAINTENANCE SECTION

		Post-IT Fax Note	7871	Date 12-5-96 Dages > 2
MEMORA	NDUM	Te Milton		From Fred
		Co/Dest.		Co.
DATE:	December 5, 1996	Phone 4	E DE VIII	Phone #
	na vena Hamil Chair	Fax 0		Fax 6
TO:	Mr. Milton Howell, Chair			

FROM:

Fred Crozier Jullanh

Short Term Work Group

Assistant District Engineer-Maintenance

Follow-up Items SUBJECT:

We are in the process of investigating all the items involving SHA which were discussed in our recent meetings:

Crellin (Garrett) - Sending request to Bridge/Hydrzulic section to determine if H & H studies have been performed and/or if there are any long range plans to raise and upgrade the bridge carrying MD 39.

Emmitsburg (Frederick) - SHA Maintenance personnel report that there are no large obstructions or apparent flow problems. The north side of the stream bank has been lined with gabions to prevent erosion. The south side has significant deposition. We will coordinate with MDE to perform a joint inspection, and will perform any needed deposition removal as soon as possible.

MD 26 over Israel Creek (Frederick) - SHA Maintenance personnel report that deposition exists, with no significant obstructions. Will coordinate joint inspection with MDE and perform any needed removal. For the long term, we will determine if any H & H studies have been done, and see if there are any long range plans to raise and upgrade the bridge. The west side of the roadway is lower than the bridge, and therefore this approach floods periodically.

General statement (all counties) - After all significant flooding events, our bridge engineers routinely perform inspections of our structures to identify potential scour problems and major obstructions. This inspection was done after both the January and September floods and all recommended work was performed. As outlined above, we will revisit the "problem" areas to determine if further deposition removal is needed.

George's Creek/Westernport (Allegany) - Local group involving SHA. NRCS. Allegany County and others will attempt to buy out 20 properties upstream and downstream of Waverly Street and perform stream modifications as recommended by SHA designers. MDE, and one or more stream experts. Our next meeting is Monday, December 9th.

Mr. Milton Howeil December 5, 1996 Page 2

Reynolds/Morrison (Allegany) - Will confer with Allegany County to determine who maintains clogged culverts near Treatment Plant and take any necessary action.

Pekin (Allegany) - Will confer with NRCS to determine cost estimate for joint project to upgrade the community drainage system and will request funding from MDOT.

Midlothian Road/Winebrenner Run (Allegany) - We had intended to replace an old pipe with an open ditch, but this may conflict with a proposed private stormwater pond. We will confer with the County to resolve the problem.

Jennings Run (Allegany) - Will review with NRCS to determine if work is needed and funding is available.

Braddock Run (Allegany) - Working on plan to replace an open ditch with a closed drainage system near Vocke and Braddock Roads. . . Investigating possible failure of concrete streambank lining near Vocke Road. . . Will review concrete slope protection near US 40 with MDE. . . Our H & H people have approached MDOT about possible funding to perform a detailed study of the Braddock Run watershed. If this is funded, we will proceed with the study.

If you have any questions or need further information, please cail.

FC:fc

MD 26 over Lorest Cress; (Frederick) - ARA Maloureston personnel peper that deposition

SHORT-TERM ACTION PLAN TAB 2 RECOMMENDED ACQUISITIONS

ACQUISITIONS

	PLANNED	FUTURE	8	PROBABLE
SITE ACQUISITION	ACQUISITIONS	ACQUISITIONS	COST	FUNDING
	(0-12 MOS.)	(+12 MOS.)	(\$)	
ALLEGANY COUNTY				
George's Creek Watershed				31
Westerriport	24		848,000	NRCS, SHA, Allegany County
Franklin	2	-	150,000	MDE, DNR, Allegany County, FEMA
Reynolds		2	100,000	*TBD
Mill Run		3	150,000	*TBD
Barton				
below Barton	4		200,000	MDE, DNR, Allegany County
Temperance Row	2	2	200,000	MDE, DNR
Pekin/Moscow	7	29	1,081,000	*TBD
Loraconing	10	5	526,000	FEMA, MDE, DNR, Allegany County
Rt. 36 north of Carey		9I	526,000	*TBD
Midland/Gilmore	10	8	572,000	FEMA, MDE, Allegany County
Sub-total	59	99	4,353,000	
Wills Creek Watershed				
Locust Grove	12	20	1,400,000	FEMA, MDE, Allegany County
Corriganville	2	\$	280,000	HUD, DNR
Ellerslie	00		400,000	HAD DAH
Sub-total	22	25	2,080,000	
Jennings Run Watershed				
Cash Valley Road		8	250,000	*TBD
Sunnyside		8	250,000	*TBD
Barrelville		6	401,000	*TBD
Rt. 36 below Barrelville		5	250,000	
Zihlman		general	50,000	*TBD
Sub-total ·	0	25	1,201,000	
Evitts Creek Watershed				
Baltimore Pike	2		219,300	*TBD
Creek Road Trailer Park		20	000'000	*TBD
Sub-total	2	20	219,300	

ow Watershed McCoole	(0-12 MOS.)	(+12 MOS.)	COST (\$)	FUNDING SOURCE(S)	FUNDING SOURCE(S)
Total Control of the			80 000	*TBD	
Sub-total 0	0	Tribal Sales on the	20,000		
Town Creek				UF	
Warm Springs		-	50,000	*TBD	
Dickerson Hollow		2	100,000	*TBD	
Oldtown/Flintstone		4	240,000	MDE, *TBD	
Sub-total 2	2	7	390,000	T	
Warrior Run Watershed				MI	
Cresaptown	13	2	200,000	*TBD	
Sub-total 0	0	S	200,000	IG A.I	
Braddock Run Watershed				A.E	
LaVaic		6	505,000	*TBD	
Sub-total 0	0	6	505,000	3	
ALLEGANY COUNTY TOTALS 85	5	158	9,998,300	N.	
Estimated affected population: 583				E	
WASHINGTON COUNTY	10-			FR	
Funkstown		7	315,000	*TBD	
Trailer Park		12	300,000	*TBD	à.
Hancock		14	362,870	*TBD	
Sub-total	1	33	977,870		
WASHINGTON COUNTY TOTALS Estimated affected population: 81		33	977,870		
GARRETT COUNTY Voushiogheny Watershed	S MCG)		9 00	200	
Crellin (Hudnall)	Melino		55,000	HUD, WCO, DNR	
Oakland	(24,000		

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page three of three

The second secon			100000000000000000000000000000000000000	
	PLANNED	FUTURE	COST	FROBABLE
316	(0-12 MOS.)	(+12 MOS.)	9	SOURCE(S)
North Branch Potomac Watershed			160.000	*TBD
Gorman Althouse Road		. 7	000'09	*TBD
Bear Creek		-	80,000	*TBD
Casselman River		1	150,000	*TBD
Sub-total	0	6	420,000	CK850
GARRETT COUNTY TOTALS	2	6	499,000	
Estimated affected population: 26			200,000	MDR, pAN, Allegray Charty
COC TREESTON BOTTON TO THE		-1	Synd, include	MILL SHIP.
FREDERICK COUNTY	100	The same	13.5 Tal. 3.65	
Point of Rocks	00		400,000	*TBD
Sub-total	00	0	400,000	C ASSET
FREDERICK COUNTY TOTALS	80	0	400,000	FEMAL ARTHUR Allegania Commy
Estimated affected population: 19	R		C131100	
Grand Totals	8	200	11,875,170	A Lim
Estimated total affected population: 709				
Companyille				
Syllator Streethorn				
Action Linguis				
Sauth Sparker Waterson				TIED
Notes:				
 Possible funding sources include: NRCS, FEMA, MDE, HUD, DNR, SHA, counties. 	FEMA, MDE, HUD,	DNR, SHA, countie	S.	
 Estimated costs do not necessarily reflect appraised values, nor do they include relocation costs of homeowners. 	appraised values, nor of	do they include reloca	tion costs of home	cowners.
 The analysis and conclusions have been made under the assumption that all owners of subject properties are willing sellers. 	nade under the assumpt	ion that all owners of	subject properties	are willing sellers.
 Total number of structures recommended for acquisition is 296. 	for acquisition is 296.	(+13 MDE)	00011000	BOURCEES
 Estimated population calculated by multiplying number of acquisitions by 2.4 and includes 30 people in one rental property. 	plying number of acquis	sitions by 2.4 and incl	udes 30 people in	one rental property.
*TBDto be determined.	CHRONICO CONTROL	BOLVISH.	EXLIPTY LAD	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU

Sections 7 Per

COURSENT WITHDANION EFFORTS:

SHORT-TERM ACTION PLAN

TAB 3

CURRENT MITIGATION EFFORTS IN ALLEGANY COUNTY

serutoerre laubivibor tot pouritores up portoorupoott as d. Barton: Investigere slide area in the violatry of Route 935 r Georges Creek (NRCS, SHA)

Management, MDE, MEMA, and FEMA. This architence includes on one

- e. Pakin: Abandonad mine drainage control (NRCS, SHA).
- Lonaconing Ramove dam ambanisment failure hazard at Charillatown (NRCS).
- g. Gilmom: Relocate Beaman Road Bridge (Allegany County)
- Midland: Investigate and rapelr Squirrel Neck Road rigrap failure (Bureau of Misses).
 - Grahamtovint Provide additional culvart capacity at Weish Hill Road (Allegany County).
 - Eraddous Run:
 - Increase culvert size at Plney Mountain Road (Allegany County).
- -Maintain Spruce Hollow Impoundment (NRCS to coordinate).

CURRENT MITIGATION EFFORTS IN ALLEGANY COUNTY

1. <u>SUMMARY:</u> The following projects are important mitigation efforts that are currently underway in Allegany County. These projects are separate from previously listed Natural Resources Conservation Service projects, and do not represent property acquisitions or long-term efforts. Each project also identifies the agencies which have agreed to help implement recommended solutions.

2. PROJECTS:

- a. Westernport Hill: Mining slide and stormwater management project (MDE, Allegany County, Bureau of Mines).
- b. Reynolds-Morrison: Clear clogged culverts on treatment plant road (SHA, Allegany County).
- c. Mill Run: Investigate drainage in the Kyles Hill area (NRCS).
- d. Barton: Investigate slide area in the vicinity of Route 935 and Georges Creek (NRCS, SHA)
- e. Pekin: Abandoned mine drainage control (NRCS, SHA).
- f. Lonaconing: Remove dam embankment failure hazard at Charlestown (NRCS).
- g. Gilmore: Relocate Beeman Road Bridge (Allegany County)
- h. Midland: Investigate and repair Squirrel Neck Road riprap failure (Bureau of Mines).
- i. Grahamtown: Provide additional culvert capacity at Welsh Hill Road (Allegany County).

j. Braddock Run:

- -Increase culvert size at Piney Mountain Road (Allegany County).
- -Maintain Spruce Hollow impoundment (NRCS to coordinate).

- k. Cumberland: Investigate and correct C&O Canal drainage problems (City of Cumberland, National Park Service)
- I. Upper Potomac Industrial Park: Verify causes of flooding and flood elevations; recommend possible mitigation measures (MDE, Corps of Engineers)
- m. Seven Springs Run (Oldtown): Check and clean abandoned railroad culvert (National Park Service).
- n. Evitts Creek (Williams Road to Potomac): Remove deposition from creek (NRCS).
- o. Entire County: Compare and verify flood management studies with observed flood levels of January and September 1996 (MDE, Allegany County).
- 3. INDIVIDUAL MITIGATION ASSISTANCE: Technical assistance to individual homeowners and businesses is being provided to residents of Allegany County through a joint effort of Allegany County Emergency Management, MDE, MEMA, and FEMA. This assistance includes on-site visits by a team trained to recognize and recommend mitigation measures such as floodproofing or retrofitting for individual structures.

L. C. Griffeld Company (Cipres) Griffeld (Marked P. P. Sarvice)

L. Upper Poromac Industrial Park: Verify causes of flooding and flood elevations; recommend possible mitigation measures (MDE, Corps of

1. <u>SUMMARY.</u> The following projects are important mitigation afforts that are observable descriptions Absertant Governor Times graves in a serious previously lasted Material Restauras a fire general project from previously lasted Material Restauras a fire general project from the competity and administration of long-term bifurts. Each project ratio holds by the project for the competition of the project field holds by the project for the competitions.

- o. Entire County: Compare and verify flood managements of with observed flood levels of Junuary and September 1986 IMDE. It amagement to the colla policie. It amagement to the county of the county o
 - Georges Creek (NRCS, SNA)
 - Feldir: Abandones mine drainage control (MRCS: SHA)
 - f. Loneconing: Remove dam embankment fasure hezard at: Charlestown (NECS)
 - g. Glimare: Relocate Bliantail Road Bridge (Allegany County)
 - b. Midlend: Investigate and repair Squiret Nack Road Rates failure (Burney of Mines)
 - Grahamsown: Provide additional enjoyer capacity at Water Hill Road (Allegany County).
 - J. Braddock Run:
 - -Incresse cutvert size at Pinny Mountain Road (Allegaby County).
 - -Maintain Sproge Hollow Impoundment (NRCS to coordinate).

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 5

LONG-TERM WORKGROUP ACTION PLAN

applicability and feasibility of the identified potential epiction. In come cases,

The following Section Identifies the Bood estated problems in the tour Western

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 5

LONG-TERM WORKGROUP ACTION PLAN

LONG-TERM WORK GROUP ACTION PLAN

1. STATEMENT OF THE PROBLEM: High volume rainfall, with corresponding runoff, is the chief cause of flooding within the watersheds of Western Maryland (Allegany, Frederick, Garrett, Washington counties). These watersheds have experienced a number of major flood events in the recent past, including three within the last year. While these were extreme events, their occurrence over a short-time frame has served as the catalyst for the formation of a task force to conduct a comprehensive review of their causes and identification potential methods for minimizing their impacts.

Flooding is a natural phenomenon that can result in damages to infrastructure in its path. Development (commercial, industrial, and residential) both in the floodplain and in the uplands has both increased the stormwater runoff and decreased the floodplain available to attenuate the increased flows. As a result, the people and facilities located within the floodplains of Western Maryland suffer damages from any storm event producing greater than 3 inches of rainfall over a 24 hour period.

OBJECTIVE: The objective of this plan is to identify the investigations and actions necessary to reduce and/or minimize flood related damages in the watersheds of Western Maryland. The plan focuses on the long-term and is meant to address the larger and less easily defined problems. In this sense, the long term plan complements the short term plan which focuses on specific problem areas with known solutions.

Each action identified in this plan will require investigations to determine the applicability and feasibility of the identified potential solution. In some cases, potential solutions are not known since the nature of the problem is not well-defined, and as a result a comprehensive study may be required. In this sense, the long term plan outlines a process through a series of actions by which the flood-related damages currently being experienced in Western Maryland may be minimized.

2. SIGNIFICANT ACTIONS REQUIRED:

The following Section identifies the flood-related problems in the four Western Maryland Counties by location, presents potential solutions to the problems, and, where available, their associated cost. In addition, those issues which are common to all four counties and/or require a comprehensive study approach have been grouped together.

a. ALL COUNTIES:

1) Location: North Branch, Georges Creek, Youghiogheny River, Wills Creek, and Evitts Creek

Problem: Need to minimize the impacts of flooding on citizens in western Maryland and provide ecosystem restoration Potential Solution: Comprehensive Watershed Studies

2) Location: C&O Canal

Problem: Flood damage and debris accumulation
Potential Solution: Initiate repairs and debris removal;
investigate and undertake actions necessary to
modernize portion of the C&O Canal

Cost: Repair and debris removal -\$500,000/county; study-TBD

3) Location: Potomac River Basin
Problem: Need to improve flood forecasting ability
Potential Solution: Investigate ways to improve existing flood
forecast and warning system; prepare a Flood Warning
and Preparedness Plan

White Ballie Cost: TBD and the selection of the selection

4) Location: CSX infrastructure in all four counties
Problem: Debris accumulation and backwater flooding potential
Potential Solution: Evaluate structures for potential to restrict and divert water flow

ed vernière Cost: TBD W ni beanaheaxs priet yane uso segemen buteler-boot

b. ALLEGANY COUNTY:

1) Location: Braddock Run along US 40, LaVale, SW of Braddock Inn (Public Property)

Problem: Streambank Erosion

Potential Solution: Emergency Streambank Protection
Reconnaissance Study

Cost: \$100,000

Location: Railroad bridge on Wills Creek vicinity Locust
 Grove

Problem: Backwater flooding

Potential Solution: Conduct hydrology & hydraulic analysis to determine backwater flooding causes in order to determine if bridge removal of bridge will alleviate problem

Cost: TBD

3) Location: Barton, Lonaconing, and Midland

Problem: Chronic flooding

Potential Solution: Stabilize WPA flood walls and investigate flood damage reduction alternatives

out apoperatively to address a specific problem store are identified.

Cost: TBD

4) Location: Wills Mountain, Haystack Mountain, and Barton vicinity

Problem: Stormwater management Stormwater management

Potential Solution: Investigate potential stormwater management improvements for existing developments

Cost: TBD

c. FREDERICK COUNTY:

1) Location: Brunswick

Problem: Flood damage (Potomac River)

Potential Solution: Investigate potential flood damage reduction

measures for area

Cost: \$100,000 (Reconnaissance Study)

2) Location: Point of Rocks (1998) 1998 1998 1998

Problem: Flood damage (Potomac River)

Potential Solution: Investigate potential flood damage reduction

measures for area

Cost: \$100,000 (Reconnaissance Study)

3) Location: Emmitsburg/Thurmont

Problem: Tributary flooding (sediment deposition and portion of watershed in PA).

Potential Solution: Investigate potential flood damage reduction measures for the area

Cost: TBD

d. **GARRETT COUNTY:**

1) Location: Shallmar (Abrams Creek confluence with Potomac river)

Problem: Flood damage

Potential Solution: Investigate potential flood damage reduction measures for area

Cost: TBD

Location: Friendsville (Youghiogheny River/Bear Creek)
 Problem: Streambank erosion and damage to existing flood control structure

Potential Solution: Emergency Streambank Protection

Reconnaissance Study and investigate additional potential flood damage reduction measures for the area

Cost: TBD

3) Location: Shallmar Road

Problem: Streambank erosion and damage to road

Potential Solution: Complete on-going repairs and investigate additional potential flood damage reduction measures for the area

Cost: Repair-\$784,000; Study-TBD

4) Location: Crellin

Problem: Streambank erosion near historic bridge

Potential Solution: Investigate potential flood damage reduction measures for the area

e. WASHINGTON COUNTY:

1) Location: Hancock (Little Tonoloway Creek confluence with Potomac River)

Problem: Backwater flooding due to dam created by C&O Canal box culvert during certain events

Potential Solution: Investigate possible solutions to backwater

flooding

Cost: TBD

3. <u>IMPLEMENTATION PLAN:</u> The purpose of the following matrix is to identify the potential agencies for each of the actions identified in Section 2. Lead agencies have not been identified, instead the agencies who will need to work cooperatively to address a specific problem area are identified. It is expected that through their cooperative efforts, the appropriate lead agency(s) and funding sources will be established. It is also expected that the local interests, whether contributing funding or not, will also play an active role in any action undertaken within their area of concern.

IMPLEMENTATION PLAN MATRIX

ISSUE	NRCS	MEMA	MDE/ DNR	COE	<u>SHA</u>	CSX	USGS/ NWS	FEMA	NPS	EPA
ALLEGANY COUNTY				150,15	(1) The	72100	1811111110			
Braddock Run Emergency Streambank studies	Х		Х	X		renibe				
2) Wills Creek H&H studies	GOUN	Tite	X	X			X	X		
3) WPA floodwall stabilization	Х	Х	Х	Х				Х		
4) Stormwater Management		X	X		-					
FREDERICK COUNTY			- LULIU B	11-44	DAJE P		MEME.	HMI ,E		
1) Brunswick Flooding Study	X		X	X		50.00	X			Х
2) Point of Rocks Flooding Study	Х	dang at	Х	X	ed for	GVEII Javita	X	Leed a		X
3) Emmitsburg/ Thurmont Flooding Study	Х		Х	X		ouous Mond	Х	ayense soppe		X
GARRETT COUNTY		3						301.071)		
1) Shallmar Flooding Study	X		X	X			X	77725		
2) Friendsville Emergency Streambank Protection	Х	Х	Х	X	aryilani	k Pro		Х		
3) Shallmar Rd Stabilization	X	X	X	X		12: -1		X		
4) Crellin Bridge Stabilization	Х		X	THE STATE OF	X	4.0 8/16		X		-
WASHINGTON COUNTY	rph									
1) Tonoloway Creek Flood Restrictions	Х		X	X			X	X	X	
ALL COUNTIES		ampanik	emaio		ramen					
1) Comprehensive Watershed Studies	Х		X	X			X	X		X
2) C&O Canal Repairs and Investigations	Х			X			Х		Х	×
3) Find Forecasting Improvements	Reporte	X	Х	Х			Х	Х		
4) CSX Structure Evaluation				X		X	X			

4. ADDITIONAL ISSUES AND ACTIONS:

Allow remayal of new growsh

a. Federal:

Lead Agency(s)

(1) FEMA

(2) NWS/USGS

(3) NPS

(4) ICPRB

(5) USACE, ICPRB, MDE

1597 to July 2000

(6) HUD/DHCD

Issue/Action

Flood Insurance Program: Improve procedures, payments, and education of the public.

Forecasting & Warning System:
Maintain the river gauges. Provide access numbers to Emergency
Management and Water Management
Agencies. Determine ownership for the entire Flood Forecast and Warning System. Develop plan for additional gauges. Recommend funding mechanism and requirements for operation and maintenance of the system.

Debris removal in Frederick,
Washington and Allegany Counties:
Review debris removal management
plans for lands managed by C&O
Canal National Historic Park to
alleviate flooding on Park and
adjacent lands.

Develop measures for monitoring and correcting the negative aspects of "out-of-state water focusing on" upstream watershed use.

Jennings Randolph Lake: Review the hydraulic impacts of water releases on downstream communities.

Develop a program to relocate residences at costs above the current fair market appraisal.

- b. State:
- (1) MDE
- 2) MDE
- (3) MEMA
- (4) MD DOT/SHA
 - (5) Elected Officials
- (6) MDE/EPA
 - (7) DHCD
 - (8) Governor

(9) MEMA

Mine Reclamation Regulation. Review reforestation of clear-cut areas versus planting of grass.

Allow removal of new growth vegetation and gravel bars from streams and river confluences. (Create/modify general permit)

Improve DSR process and reduce payment time.

Review stormwater management facilities controlling I-68 runoff.

Develop tax adjustments/incentives for moving out of floodplains.

Develop comprehensive wastewater treatment system for rural communities.

Extend Revitalization Area
Designations for Allegany, Frederick,
and Washington Counties from July
1997 to July 2000.

Create a Community disaster fund to finance required actions prior to and during the event.

Create an executive steering committee to follow-through on flood mitigation plans.

Relocate residences and communities out of floodplains.

c. Municipal and Private:

1) CSX

Review options for relocating railbridges/lines along Route 36: Westernport to Frostburg

(2) Watershed Associations

Sponsor stream clean-up days (Adopt-a-Stream).

(3) Municipalities

Review and revise local zoning laws; provide tax adjustments to create watershed conservation parks (explore funding and technical assistance from NPS, NRCS, USACE, ME, DNR, HUD, USF&WS, EPA and OSM for multi-objective river corridor and watershed management, structure removal and community planning).

Update Flood Hazard Mitigation Plans.

5. EXPENDITURES:

a. Federal Expenditures -

FY96

USACE

 North Branch Potomac River Environmental Restoration, WV, MD and PA.
 Recon: \$204,000.

NRCS

Emergency Watershed Protection \$2,374,430

FEMA

. Public Assistance \$1,275,000 (Allegany)

Individual and Business Assistance (Allegany) \$3,400,000

FY97

USACE

- . North Branch Potomac River Environmental Restoration, WV, MD and PA.
 FEASIBILITY STUDY: \$383.000.
- . Georges Creek Watershed Recon: \$80,000.
- . Shallmar Road, Section 14 Emergency Streambank
 Protection Project: \$484,000.
 - . Friendsville PL84-99 \$322,000.

NRCS NRCS

\$3,750,000 \$mergency Watershed Protection

FEMA

- . (Public Assistance) \$1,305,800
- Individual and Business Assistance (Allegany) \$1,550,000
- b. State of Maryland Expenditures -

1 July 1995 - 30 June 1996

CDBG

. \$815,000 (Allegany)

MDE

- . \$150,000 Small Creeks and Estuaries Program
 - . \$75,000 Bureau of Mines
 - . \$100,000 NRCS cost share, January 1996
 - . \$1,200,000 Carroll Creek Flood Control
 City of Frederick

1 July 1996 - 11 December 1996

SHA

- . \$2,700,000 (Allegany)
 - . \$130,000 (Frederick)
 - , \$100,000 (Garrett)

MDE

- . \$100,000 FEMA cost share: Comprehensive Flood

 Management Grant Program January 1996

 event.
- . \$37,500 FEMA cost share: Comprehensive Flood

 Management Grant Program September 1996

 event.
- . \$1,600,000 Carroll Creek Flood Control City of Frederick.

c. County Expenditures

1 July 1995 - 30 June 1996

Allegany County

\$826,554 NRCS cost share

Frederick County

\$100,000 NRCS cost share

Garrett County

\$146,046 NRCS cost share

Washington County

None Reported

1 July 1996 - 11 December 1996

Allegany County

\$1,225,000 NRCS cost share

\$635,815 FEMA cost share

Frederick County

\$0.00 NRCS cost share

\$275,281 FEMA cost share

Garrett County

\$25,000 NRCS cost share

\$181,888 FEMA cost share

Washington County

\$0.00 NRCS cost share

\$212,816 FEMA cost share

6. CONCLUSIONS AND RECOMMENDATIONS:

a. Conclusions:

- 1) Allegany County, specifically the Georges Creek and Wills Creek watersheds, received the most devastation from the three flood events from June 1995 through September 1996.
- 2) Twenty federal and state agencies have varying authorities by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.
- 3) To effectively minimize the impacts of flooding on the citizens in western Maryland, ecosystem restoration and land management must be targeted for each watershed.

b. Recommendations:

- 1) That the Maryland Department of the Environment (MDE) and the Maryland Emergency Management Agency (MEMA) be designated as the responsible agencies for synchronizing all post flood recovery and watershed restoration efforts in Maryland.
- 2) That an Executive Steering Committee, appointed by the Governor of Maryland meet on a semi-annual basis to monitor the progress on identified issues. This steering committee should coordinate its actions with the State Hazard Mitigation Policy Team. The first committee meeting should be scheduled for the first week in May 1997.
- 3) That the lead Federal, State, and local agencies investigate the open issues and report progress at the Executive Steering Committee meetings.
- 4) That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden of the local cost share requirements.
- 5) That Maryland Department of the Environment conduct public symposiums for western Maryland to educate citizens on the relationships between land use and flooding.

- 6) That watershed studies be targeted to address the needs of the individual counties and that information be used to update existing county plans.
- 7) That authorities responsible for all existing State of Maryland programs for locally-designated Conservation and Revitalization Areas give priority of effort, in order, to Allegany, Garrett, Washington and Frederick Counties. The Secretaries/Directors of appropriate Departments and Agencies should assume responsibility for this action.

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 6

SIGNIFICANT ACTIONS REQUIRED

worth of apparentions assume 12 months. These cost figures and

5) That waterched studies be surgeted to address the reads of the individual counties and that information be used to update existing county plans.

EGYERNOR'S FLOOD WITHGATION TASK

Departments and Appropriate should assure responsibility for mile action.

INTERIM REPORT

SECTION 6

SIGNIFICANT ACTIONS REQUIRED

SIGNIFICANT ACTIONS REQUIRED

The following significant actions required represent the consolidated findings of the short-term and long-term workgroups:

SHORT-TERM:

a. ALL COUNTIES:

- 1) Immediately restore streambeds and affected infrastructures to their condition prior to storm events. A summary of NRCS and SHA actions taken to accomplish this recommendation is at Section 4, Tab 1 of this report.
- 2) Immediately remove debris from prior storm events from affected waterways. A summary of NRCS and SHA actions taken to accomplish this recommendation is at Section 4, Tab 1 of this report.
- 3) Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain. Recommended acquisitions by county are detailed at Section 4, Tab 2 of this report. Total estimated cost of recommended acquisitions is \$11,875,170; \$3,820,300 worth of acquisitions in the 0-12 month timeframe and \$8,054,870 worth of acquisitions beyond 12 months. These cost figures and total number of structures (296) assume that all residents will be willing to relocate.
- 4) Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.
- 5) Identify and assist in funding floodproofing methods for public buildings or facilities and business owners when appropriate through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.
- 6) Work with Federal officials and the insurance industry to streamline payment of flood insurance claims.

7) Create legislation to amend/augment the State's Comprehensive Flood Grant Management Program as follows:

Increase the State share from 50 percent to 75 percent and reduce the local share to 25 percent. The Comprehensive Flood Grant Management Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.

-Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.

-Provide relocation costs and a financial incentive to induce residents to relocate out of the floodplain.

8) Fully fund the State Catastrophic Event Fund. Create legislation to amend/augment the State's Catastrophic Event Fund as follows:

-Expand availability of the fund for use by local jurisdictions.

-Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year.

-Reserve certain funds for immediate disbursement following a disaster and/or to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share basis.

9) Investigate the use of volunteer resources in local jurisdictions for annual stream clean-up activities.

b. ALLEGANY COUNTY:

1) Continue to support stream restoration efforts in the Georges Creek area. The NRCS is coordinating with Allegany County, the Town of Westernport, and the State Highway Administration to implement special stream restoration activities in Georges Creek. The project will restore the Georges Creek stream channel in Westernport, from approximately 1,500 feet upstream of Waverly Street to the railroad crossing at the American Legion. Work involves acquisition of 20 residences and stream channel relocation.

- 2) Continue to support other current projects in Allegany County which mitigate flood damage. A list of these projects and the agencies involved in implementing them is at Tab 3.
- 3) Study existing Barton Reservoir to determine if breaching or reconstruction would be best to reduce existing safety hazards.
- 4) Remove deposition at the confluence of the Potomac River at George's Creek.
- 5) Investigate removal of deposition at the SHA bridge and installation of larger culverts in the vicinity of Maryland Route 36 at Elk Lick Run.
- 6) Relocate the existing Midland ballfield out of the 100-year floodplain.
- 7) Remove a box culvert structure from the abandoned railroad in the vicinity of Grahamtown (after determining actual ownership).
- 8) Assess the impacts from removal of the old CSX railroad bridge in the vicinity of Locust Grove.
- 9) Assess the use of pipe culvert in lieu of open ditch for stormwater conveyance adjacent to Vocke Road residences.
- 10) Investigate floodproofing and structural retrofitting opportunities in the vicinity of Braddock Run.
- 11) Repair concrete slope protection and study prevention measures along I-68 in the vicinity of Clarysville and Vocke Road.
- 12) Provide information and education on stream restoration, floodplains, and floodproofing to floodplain residents and elected officials.

c. FREDERICK COUNTY:

- 1) Remove deposition at the U.S. Route 15 bridge over Flat Run near Emmitsburg.
 - Clear debris and deposition in Flat Run, and provide assistance to the Town of Emmitsburg and Frederick County to obtain needed permits.
 - Support Frederick County floodplain maintenance and floodproofing initiatives along to Flat Run in Emmitsburg to prevent future flood damage.
 - 4) Survey blockage of culverts at other sites throughout the County.
 - 5) Investigate mitigation measures (including roadway elevation and placement of flood relief culverts) to minimize future flooding on Maryland Route 26 at Israel Creek.
 - 6) Clear C&O Canal and towpath of debris in areas adjacent to the Brunswick Water Treatment plant.

d. GARRETT COUNTY:

- 1) Investigate possible mitigation measures to minimize future flooding at Maryland Route 39 in the vicinity of Crellin.
- 2) Retrofit (elevate) or floodproof 26 homes in Crellin in accordance with previous mitigation project proposal. Estimated cost of this project is \$671,000.
 - 3) Floodproof Friendsville Water Treatment plant in accordance with previous mitigation project proposal. Estimated cost of this project is \$31,250.
 - 4) Investigate opportunities to protect structures in Friendsville through floodproofing or isolating them from flood waters.
 - 5) Continue Corps of Engineers road stabilization project in the vicinity of Shallmar; coordinate with CSX, NRCS, and MDE regarding hauling, dumping, and placement of fill.
 - 6) Remove CSX railroad trestle above Shallmar.

- 7) Investigate clearing Potomac River channel near Kitzmiller.
- 8) Investigate streambank stabilization opportunities across from Abrams Creek.

e. WASHINGTON COUNTY:

- 1) Provide floodproofing/retrofitting assistance to the American Legion Post in Funkstown.
- 2) Floodproof Hancock waste water pumping station in accordance with previous mitigation project proposal. Estimated cost of this project is \$120,000.
- 3) Relocate Sharpsburg water intake to minimize the degree of maintenance currently required and prevent future flood damage.

LONG-TERM

a. ALL COUNTIES:

1) Location: North Branch, Georges Creek, Youghiogheny River, Wills Creek, and Evitts Creek

Problem: Need to minimize the impacts of flooding on citizens in western Maryland and provide ecosystem restoration Potential Solution: Comprehensive Watershed Studies

Cost: TDB

2) Location: C&O Canal

Problem: Flood damage and debris accumulation

Potential Solution: Initiate repairs and debris removal; investigate and undertake actions necessary to modernize portion of the C&O Canal

Cost: Repair and debris removal -\$500,000/county; study-TBD

3) Location: Potomac River Basin

Problem: Need to improve flood forecasting ability

Potential Solution: Investigate ways to improve existing flood forecast and warning system; prepare a Flood Warning and Preparedness Plan

4) Location: CSX infrastructure in all four counties Problem: Debris accumulation and backwater flooding potential Potential Solution: Evaluate structures for potential to restrict and divert water flow

b. ALLEGANY COUNTY:

1) Location: Braddock Run along US 40, LaVale, SW of Braddock Inn (Public Property)

Problem: Streambank Erosion

Potential Solution: Emergency Streambank Protection Reconnaissance Study

Cost: \$100,000

2) Location: Railroad bridge on Wills Creek vicinity Locust Grove

Problem: Backwater flooding

Potential Solution: Conduct hydrology & hydraulic analysis to determine backwater flooding causes in order to determine if bridge removal of bridge will alleviate problem

3) Location: Barton, Lonaconing, and Midland proposal. Estimated cost of this

Problem: Chronic flooding

Potential Solution: Stabilize WPA flood walls and investigate flood damage reduction alternatives

4) Location: Wills Mountain, Haystack Mountain, and Barton vicinity

Problem: Stormwater management

Potential Solution: Investigate potential stormwater management improvements for existing developments

c. FREDERICK COUNTY:

1) Location: Brunswick

Problem: Flood damage (Potomac River)

Potential Solution: Investigate potential flood damage reduction

measures for area

Cost: \$100,000 (Reconnaissance Study)

2) Location: Point of Rocks

Problem: Flood damage (Potomac River)

Potential Solution: Investigate potential flood damage reduction

measures for area

Cost: \$100,000 (Reconnaissance Study)

3) Location: Emmitsburg/Thurmont

Problem: Tributary flooding (sediment deposition and portion of watershed in PA).

Potential Solution: Investigate potential flood damage reduction measures for the area

Cost: TBD

d. GARRETT COUNTY:

1) Location: Shallmar (Abrams Creek confluence with Potomac river)

Problem: Flood damage

Potential Solution: Investigate potential flood damage reduction measures for area

Cost: TRD

2) Location: Friendsville (Youghiogheny River/Bear Creek) Problem: Streambank erosion and damage to existing flood control structure

Potential Solution: Emergency Streambank Protection Reconnaissance Study and investigate additional potential flood damage reduction measures for the area

3) Location: Shallmar Road

Problem: Streambank erosion and damage to road

Potential Solution: Complete on-going repairs and investigate additional potential flood damage reduction measures for the area

Cost: Repair-\$784,000; Study-TBD Cost: \$100,000 (Reconsissance Str

4) Location: Crellin

Problem: Streambank erosion near historic bridge

Potential Solution: Investigate potential flood damage reduction

measures for the area

Cost: TBD

e. WASHINGTON COUNTY:

1) Location: Hancock (Little Tonoloway Creek confluence with Potomac River)

Problem: Backwater flooding due to dam created by C&O Canal box culvert during certain events

Potential Solution: Investigate possible solutions to backwater flooding

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

SECTION 7

INITIAL FUNDING REQUIREMENTS

proceed amount of State (\$1.3 million) and federal \$51.1 million funds are

Problem. Streambank erosion and damage to read
Potential Solution: Complete on going repairs and inventional solutions promise an going repairs and inventional potential food damage requirem measures for the state.

GOVERNOR'S FLOOD-INITIOATION TASK FORCE FOR WESTERN MARYLAND

Problem: Street bank eresion near historic bridge
Potential Solution: Inversigate potential flood dismage reduction
mussure TROPER MIRETMI

Coxt: TED

SECTION THEODISTINGSAW ..

1/ Location: Handock Utille Tonolowey Crack configures with

INTRAL-FUNDING REQUIREMENTS

Caral box culvert during cortain avents

Potential Solution Investigate passible solutions to escriberer.

Cours TRD.

INITIAL FUNDING REQUIREMENTS

Current estimated funding requirements are provided for both short-term and long-term recommendations. The figures are the best available estimates at this time and do not reflect the entire cost of implementing all recommendations. Rather, they represent the total funding required for all recommendations which have estimated costs.

SHORT-TERM

1. Acquisition and demolition of 276 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in Allegany, Frederick, Garrett, and Washington Counties (detailed at Section 4, Tab 2 of this report).

ESTIMATED COST: \$11,875,170

2. Retrofit or elevate 26 homes in Crellin, Garrett County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$671,000 Estimated and to not be united and the control of the co

3. Floodproofing of the water treatment plant in Friendsville, Garrett County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$31,250

4. Floodproofing of waste water pumping station in Hancock, Washington County, in accordance with previous mitigation project proposal.

ESTIMATED COST: \$120,000

TOTAL ESTIMATED COST FOR SHORT-TERM RECOMMENDATIONS: \$12,697,420

It is recommended that funding be provided by federal (75%), State (12.5%), and county (12.5%) governments over the next three years. A limited amount of State (\$1.3 million) and federal (\$1.1 million) funds are currently available which require a local cost share.

LONG-TERM

1. Repair of flood damage and removal of accumulated debris along the C&O Canal National Historic Park.

ESTIMATED COST: \$2,000,000 (\$500,000 per county)

2. Emergency Streambank Protection Reconnaissance Study of Braddock Run, Allegany County.

ad do not reflect the entire cost of implementing at

ESTIMATED COST: \$100,000

3. Reconnaissance study of the Potomac River at Brunswick, Frederick County.

ESTIMATED COST: \$100,000

4. Reconnaissance study of the Potomac River at Point of Rocks, Frederick County.

ESTIMATED COST: \$100,000

5. Completion of on-going repairs to Shallmar Road, Garrett County.

ESTIMATED COST: \$784,000*

TOTAL ESTIMATED COST FOR LONG-TERM RECOMMENDATIONS: \$3,084,000 (federal funds required)

*This project will require a 35 percent share in the amount of \$274,000. Recommend that this cost share be provided by the local jurisdiction (50 percent) and the State (50 percent).

NOTE: The costs listed for reconnaissance studies do not include the costs of implementing construction projects which may be recommended by the studies.

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

1. Allegainy County, specifically the Georges Crock and

INTERIM REPORT

SECTION 8

CONCLUSIONS AND RECOMMENDATIONS

1. Publishes and remove 276 structures in the 100-year fluorition and 20

Acquire properties to while real times to voluntarily relocate to other areas

LONG-TERM

1. Repair of fished damage and removal of accumulated debris along the C&O Canal National Fusions Park.

GOVERNOR SELECTION TASK FORCE FOR WESTERN MARY LANDS ADDRESS TO VOLUME TO BE AND ADDRESS TO VOLUME TO BE ADDRESS TO VOLUME TO BE ADDRESS TO VOLUME TO VOLUME TO BE ADDRESS TO VOLUME TO

INTERIM REPORTSON DETAMITED

3. Reconnection of the Parameter River at Brunswick, Frederick County.

ESTIMATED COST: \$100,000

4. Secondisaurics in B. MOLLNING River at Point of Rocks, Frederick

CONCLUSIONS AND RECOMMENDATIONS

5. Completion of an going repairs to Shallour Road, Garrent Coulons

ESTIMATED COST: 1784 0001

TOTAL ESTIMATED COST FOR LONG-TERM RECOMMENDATIONS: \$5,084,000 (receipt to self-term)

*This project will exquire a 35 purcent sours in the amount of \$274,000. Recommend that this cost share be provided by the local jurisonation 150 percent).

NOTE: The class firsted for reconnectionate studies do not include the bosts of implementing construction projects which may be recommended by the studies.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations represent the consolidated findings of the short-term and long-term workgroups:

CONCLUSIONS:

- 1. Allegany County, specifically the Georges Creek and Wills Creek watersheds, received the most devastation from the three flood events from June 1995 through September 1996.
- 2. Twenty federal and state agencies have varying authorities by which to assist the counties during and after emergency situations, but their activities are not currently synchronized nor coordinated through one centralized, responsible organization.
- 3. To effectively minimize the impacts of flooding on the citizens in western Maryland, ecosystem restoration and land management must be targeted for each watershed.

RECOMMENDATIONS (SHORT-TERM):

- 1. Purchase and remove 276 structures in the 100-year floodplain and 20 structures in the 500-year floodplain in accordance with willing sellers. Acquire properties to enable residents to voluntarily relocate to other areas out of the floodplain.
- 2. Identify and assist in funding floodproofing methods for individual home and business owners through a State grant or loan fund. Floodproofing should be cost-effective, not adversely impact others, be targeted toward protecting structures, and should not reduce available floodplain or effective flow area. Funds should be available throughout the State to encourage mitigation measures in all local jurisdictions.
- 3. Immediately restore streambeds and affected infrastructures to their condition prior to storm events. Immediately remove debris from prior storm events from affected waterways.
- 4. Where feasible, remove waterway blockages (e.g. old dikes, dams, trestles, etc.) to allow the free flow of flood waters.

- 5. Work with Federal officials and the insurance industry to streamline payment of flood insurance claims.
- 6. Provide comprehensive public information and education on river hydraulics and geomorphology, when and how to floodproof, functions and values of floodplains, and the National Flood Insurance Program.
- 7. Create legislation to amend/augment the State's Comprehensive Flood Grant Management Program as follows:
- Increase the State share from 50 percent to 75 percent and reduce the local share to 25 percent. The Comprehensive Flood Grant Management Program should be utilized when federal assistance is unavailable, or when State matching funds are required for mitigation projects.
 - -Increase the CFMGP bond authorizations over the next two to three years to provide the necessary support to accomplish the recommendations of this Task Force in acquiring properties, conducting flood studies, and supporting necessary flood warning systems.
 - -Provide relocation costs and a financial incentive to induce residents to relocate out of the floodplain.
 - 8. Create legislation to amend/augment the State's Catastrophic Event Fund as follows:
 - Expand availability of the fund for use by local jurisdictions.
 - -Utilize the resources of the fund to assist financially challenged communities with their 25 percent share of federal disaster assistance. Utilize the fund to pay 50 percent of the local governments' cost share of federal disaster assistance when the cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year.
 - -Reserve certain funds for immediate disbursement following a disaster and/or to jurisdictions where federal disaster assistance is unavailable, and the estimated cost of the disaster exceeds five dollars per capita for the jurisdiction in a single budget year. These funds would be provided on a 75 percent State cost share/25 percent local cost share basis.

9. Implement currently proposed construction and elevation mitigation projects.

RECOMMENDATIONS (LONG-TERM):

- 1. That the Maryland Department of the Environment (MDE) and the Maryland Emergency Management Agency (MEMA) be designated as the responsible agencies for synchronizing all post flood recovery and watershed restoration efforts in Maryland.
- 2. That an Executive Steering Committee, appointed by the Governor of Maryland meet on a semi-annual basis to monitor the progress on identified issues. This steering committee should coordinate its actions with the State Hazard Mitigation Policy Team. The first committee meeting should be scheduled for the first week in May 1997.
- 3. That the lead Federal, State, and local agencies investigate the open issues and report progress at the Executive Steering Committee meetings.
- 4. That the elected and appointed officials assist in appropriating funds to implement the required actions and to minimize the financial burden of the local cost share requirements.
- 5. That Maryland Department of the Environment conduct public symposiums for western Maryland to educate citizens on the relationships between land use and flooding.
- 6. That watershed studies be targeted to address the needs of the individual counties and that information be used to update existing county plans.
- 7. That authorities responsible for all existing State of Maryland programs for locally-designated Conservation and Revitalization Areas give priority of effort, in order, to Allegany, Garrett, Washington and Frederick Counties. The Secretaries/Directors of appropriate Departments and Agencies should assume responsibility for this action.

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

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ANNEX A

AUTHORITIES AND MAXIMUM ALLOWANCES

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

AIMIEX A

AUTHORITIES AND MAXIMUM ALLOWANCES

Maryland Department of the Environment (MDE) and Maryland Emergency Management Agency (MEMA)

Program: Hazard Mitigation Grant Program (floods)

Authorities: 42 U.S.C. 5170c, 44 CFR

Funding: FEMA provides 15 percent of the combined individual and public assistance associated with federally declarted disasters to the states for mitigation efforts. Ex. Winter Storm 1996- \$860,000.00 and

Hurricane Fran-\$250,000.00

Key Responsibilities: The HMGP provides up to 75 percent of the cost of hazard mitigation projects sponsored by State and local governments. This program provides grant funds to support the purchase, elevation, and building relocation of properties that lie within the 100-year floodplain. Grants made under this program can only be made to jurisdictions that qualify under Federal requirements for disaster declaration and they are participating communities in the National Flood Insurance Program. It is a FEMA program but is jointly administered by MDE and MEMA.

Point Of Contact: William Parrish

MDE

Tawes State Office Building Annapolis, Maryland 21401 (410) 631-4164

Evalyn Fisher MEMA 2 Sudbrook Lane East Pikesville, Maryland 21208 (410) 486-4422

Problems / Solutions: These funds are only available for federally declared disasters.

However, FEMA is initiating a process to provide states with block grants to use in mitigation efforts prior to flooding.

Maryland Department of the Environment (MDE), Technical and **Regulatory Services Administration**

Program: National Flood Insurance Program - Community Assistance Program

Authorities: 42 U.S.C. 4001 et. seq., 44 CFR

Funding: \$67,000.00 federal and \$22,000.00 state

Key Responsibilities: This federally funded and state-supported program provides oversight

and technical assistance to local jurisdictions in developing and maintaining programs that qualify local governments and individual property owners for participation in the National Flood Insurance Program. Qualifying requirements include local zoning and building construction ordinances for areas within the designated 100-year

floodplain.

Point Of Contact: William Parrish

NFIP State Coordinator Tawes State Office Building Annapolis, Maryland 21401 (410) 631-4164

Problems / Solutions: Level federal funding over the past several years, in consideration of inflationary pressures, is gradully diminishing the State's ability to serve the local jurisdictions.

Maryland Department of the Environment (MDE), Technical and Regulatory Services Administration

Program: Comprehensive Flood Management Program (CFMGP), a.k.a. "Flood Hazard Mitigation Act of 1976"

Authorities: Environmental Article 5-801 5-809, Code of Maryland Regulations: Title 26.17.06

Funding: Bond authorizations are requested as needed. A total of \$28.9 million since 1981 has been authorized. The currently available balance is approximately \$1.3 million. Cost-share is 50/50 with local jurisdictions

Key Responsibilities: This legislation establishes or promotes assistance to guide development to minimize impacts of flooding; State guidlines for, and technical assistance to, local governments; comprehensive watershed management; facilitation of flood control projects; encouragement of local government management of flood-prone areas; environmental quality of state watersheds; and a grant program to assist local jurisdictions in capital projects.

Point Of Contact: William Parrish
2500 Broening Highway
Baltimore, Maryland 21224
(410) 631-4164

Problems / Solutions: Mitigation grants require a local match equal to the State contribution (e.g.,50/50). When used in conjunction with FEMA's Hazard Mitigation Grant Program (75 percent federal), the state and local shares are 12.5 percent each. In the absence of a federally declared disaster, and hence FEMA support, the state and local shares are 50 percent each. Local governments often find their 50 percent share to be unavailable. One solution would be to increase the State share from 50 percent to 75 percent, for at least the non-federally declared disasters.

Program: Small Creeks and Estuaries Water Quality Restoration

Authorities: Annotated Code of Maryland; Environmental Article 9-345-9-357

Funding: \$1 million annually for projects statewide

Key Responsibilities: 50 percent State and 50 percent local government cost-share capital

program for projects targeted to improving and/or restoring stream systems that have been damaged by activities such as urbanization,

channelization, poor agriculture and flooding.

Point Of Contact: Virginia F. Kearney

2500 Broening Highway
Baltimore, Maryland 21224

(410) 631-3574

Program: Maryland Supplemental Assistance Program

Authorities: Annotated Code of Maryland; Environmental Article 9-345-9351;

COMAR 26.03.08

Funding: \$1 million- \$2 million annually for projects statewide-

Key Responsibilities: This program provides grant assistance to communites which cannot

afford the full cost of needed wastewater collection and treatment facilities, and where MDE has a high priority to correct an existing wastewater problem. Grants can equal up to 100 percent of costs, but

are usually less than one-half of the funding of a given project.

Point Of Contact: Virginia F. Kearney

2500 Broening Highway Baltimore, Maryland 21224

(410) 631-3574

Program: Urban Stormwater Pollution Control

Authorities: Annotated Code of Maryland; Environmental Article 9-345-9-351

Funding: \$1 million annually for projects statewide

Key Responsibilities: 75 percent state and 25 percent local government cost-share capital

program; the program funds projects to control runoff from older developed areas where opportunities exist to enhance water quality through the provision of modern stormwater management facilities.

Point Of Contact: Virginia F. Kearney

2500 Broening Highway
Baltimore, Maryland 21224

(410) 631-3574

Program: Maryland Drinking Water State Revolving Loan Fund (DWSRF)

Authorities: Safe Drinking Water Act, 1996 Amendments, Annotated Code of

Maryland, Environmental Article 9-1601-9-1622

Funding: Maryland estimates 1997 FY allocation of \$17,500,000.00

Key Responsibilities: Projects needed to meet primary drinking water standards; imminent

health hazards are to be given highest priority. Systems lent these funds must have or agree to put in place adequate mechanisms to ensure the financial, managerial, and technical capability to operate and maintain the system. Water system upgrades needed to address flood-related problems may be eligible for funding. Estimated date of

program initiation is July 1997.

Point Of Contact: Virginia F. Kearney

2500 Broening Highway Baltimore, Maryland 21224

(410) 631-3574

-OI-

Pat Crosby, Director Office of Budget

(410) 631-4155

Program: Maryland Water Supply Financial Assistance Program

Authorities: Annotated Code of Maryland; Environmental Article 9-420-9-426; COMAR 26.03.09

Funding: \$1 million to \$2 million annually for projects statewide

Key Responsibilities: This is a grant/loan program administered by MDE that provides

financial assistance for water supply system repairs and upgrades to ensure safe and adequate water supplies. While not designed to respond to immediate disasters such as flooding, the program may be able to assist, through an emergency action to the Board of Public Works, where existing water supplies are adversely impacted by a

weather event.

Point Of Contact: Virginia F. Kearney

2500 Broening Highway Baltimore, Maryland 21224

(410) 631-3574

Program: Maryland Water Quality State Revolving Loan Fund

Authorities: Annotated Code of Maryland; Environmental Article 9-1601-9-1622

Funding: current lending capacity \$140 million

Key Responsibilities: This program is funded by a mix of Federal and state funds to provide

low interest loans to local governments for a wide variety of water

quality-related capital improvements. In addition to funding

wastewater treatment facility projects, the fund may be used for the planning, design, and construction of non-point source projects to

improve water quality. Projects such as stream restoration,

stormwater management facilities, and flood control projects where a water quality benefit may be gained are eligible for this type of funding.

Point Of Contact: Virginia F. Kearney

2500 Broening Highway

Baltimore, Maryland 21224

(410) 631-3574

-or-

Pat Crosby, Director Office of Budget

(410) 631-4155

Program: Individual Assistance (IA) Program

Authorities:

Funding: Cost share is 75/25; State of Maryland contributes 25 percent match to IA reimbursements. Available funds are based on case-by-case

assessments

Key Responsibilities: Provides loans and/or grants to individuals to assist with home repairs

and other expenses associated with recovering from a disaster. The program is administered by the Department of Human Resources. Bulk of the assistance consists of Small Business Administration disaster loans. Funds are only available following a Federal Disaster Declaration. An additional amount, equaling 20 percent of total damages, may be made available for individual mitigation measures.

Point Of Contact: David Thomas

FEMA, Region III

Liberty Square Building, Second Floor

105 South Seventh Street

Philadelphia, Pennsylvania 19106-3316

(215) 931-5512

Program: Public Assistance (PA) Program

Authorities:

Funding: Cost share is 75/25. Available funds are based on case-by-case

Damage Survey Reports. Only available following a Federal Disaster

Declaration

Key Responsibilities: The program provides funding to jurisdictions to assist with

infrastructure repair and other measures needed following a disaster.

Point Of Contact: David Thomas

FEMA, Region III

Liberty Square Building, Second Floor

105 South Seventh Street

Philadelphia, Pennsylvania 19106-3316

(215) 931-5512

Program: National Flood Insurance Program

Authorities: The National Flood Insurance Act of 1968; Section 202, PL 93-234

Funding: Varies annually depending on Federal appropriation.

Key Responsibilities: The program provides oversight and technical assistance to local

jurisdictions to develop and maintain programs that qualify local governments and citizens for participation in the National Flood Insurance Program. Requirements include local zoning and building construction ordinances for areas within the designated 100-year floodplain. Has most recently been used to fund half of local jurisdictions' 25 percent match in acquisitions projects. Program is administered by the Maryland Department of the Environment.

Point Of Contact: David Thomas

FEMA, Region III

Liberty Square Building, Second Floor

105 South Seventh Street

Philadelphia, Pennsylvania 19106-3316

(215) 931-5512

Program: Purchase of Floodplain Property

Authorities: Section 1362, The National Flood Insurance Act of 1968

Funding:

Key Responsibilities:

Point Of Contact: David Thomas

FEMA, Region III

Liberty Square Building, Second Floor

105 South Seventh Street

Philadelphia, Pennsylvania 19106-3316

Philadelphia, Persylvenia 19105-1316

(215) 931-5512

Program: Hazard Mitigation Grant Program

Authorities: Section 404, Robert T. Stafford Disaster Relief and Emergency

Assistance Act. 44 CFR, Part 206

Funding: Cost-share is 75/25

Key Responsibilities: The objective of the Program is to assist in releiving or eliminating

imminent hazards to life and property from floods. The maximum authority is 15 percent of combined amounts of total public and individual damages in juisdictions declared Federal disaster areas.

Point Of Contact: David Thomas

FEMA, Region III

Liberty Square Building, Second Floor

105 South Seventh Street

Philadelphia, Pennsylvania 19106-3316

(215) 931-5512

Federal Highway Administration (FHA)

Program: Title 23 Emergency Relief

Authorities:

Funding: Varies annually based upon national appropriation. Cost-share is

90/10

Key Responsibilities: Used to reimburse state highway agencies for damages caused by

disaster situations. Funds can be used for acquisition of homes and

other non-highway mitigation measures only if tied to road

improvements.

Point Of Contact:

Program: Loans

Authorities:

a man Funding: managorque language noque bound elle imparation V queitaus F

Key Responsibilities: Provides below market rate ownership and operating loans to farmers

through the FmHA to family farmers who cannot obtain private credit

to finance operations or make farm improvements.

Point Of Contact: Maryland State Farm Service Agency

8335 Guilford Road-Suite E Columbia, Maryland 21046

James Voss, State Executive Director

(410)-381-4550

Program: Disaster Payments

Authorities: The Agriculture Consumer Protection Act of 1973

Funding:

Key Responsibilities: Compensates farmers for unusually low yields due to natural disasters,

adverse weather, and other conditions beyond a producer's control.

The program covers wheat, barley, corn, sorghum, rice and cotton for

counties in which Federal Crop Insurance was not available.

Point Of Contact: Mr. James Voss

State Executive Director
Farm Services Agency
8335 East Guilford Road
Columbia, Maryland 21042

(410) 381-4550/4551

Program: Debt Cancellation Conservation Easements

Authorities: The same and the second and the second

Funding:

Key Responsibilities: Forgive debt in exchange for conservation easements on

environmentally sensitive portions of a borrower's property. A

conservation easement may be obtained for a period of not less than

50 years.

Point Of Contact: Mr. James Voss

State Executive Director

Farm Services Agency

8335 East Guilford Road

Columbia, Maryland 21042

(410) 381-4550/4551

Program: Sodbuster Provision

Authorities: The Agriculture Consumer Protection Act of 1973

Funding:

Key Responsibilities: Discourages the conversion of highly erodible land to agricultural

production.

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042

(410) 381-4550/4551

Program: Price and Income Support Programs

Authorities: The Agricultural Adjustment Act of 1933

Funding:

Key Responsibilities: Supports and stabilizes farm prices and income Also maintains stable

levels of supply through CCC payments, purchases, and acreage

reduction programs.

Point Of Contact: Mr. James Voss

State Executive Director
Farm Services Agency
8335 East Guilford Road
Columbia, Maryland 21042
(410) 381-4550/4551

Program: Agricultural Water Quality Protection Program

Authorities: The Food Security Act of 1990

Funding: Supply Researched Programs

Key Responsibilities: Provides 3- to 5- year agreements with farm owners and operators to

develop and implement plans to protect water quality.

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042

(410) 381-4550/4551

Program: Conservation Reserve Program

Authorities: The Food Security Act of 1985

Funding:

Key Responsibilities: Encourages farmers, through 10- to 15- year contracts with USDA, to

stop growing crops on cropland subject to excessive erosion or that contributes to a significant water quality problem and planted to a

protective cover of grass or trees.

Point Of Contact: Mr. James Voss

State Executive Director
Farm Services Agency
8335 East Guilford Road
Columbia, Maryland 21042

(410) 381-4550/4551

Program: Agricultural Conservation Program

Authorities: The Soil Conservation and Domestic Allotment Act of 1936

Funding: Supply Restriction Programs

Key Responsibilities: Cost sharing to farmers and ranchers to carry out conservation and

environmental practices on agricultural land, establishment, or improvement of permanent vegetative cover, contour or stripcropping, and terrace systems; development of springs, seeps, and wells; installation of pipelines, storage facilities, and other measures intended to provide erosion control on range or pasture land; installation of water impoundment reservoirs for erosion control, conservation, and environmental and wildlife enhancement; planting trees and shrubs and improving timber stands for protection against wind and water erosion and for timber production; and development of new or rehabilitation of existing shallow water areas to support

food, habitat, and cover for wildlife.

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042 (410) 381-4550/4551

Problems / Solutions: U. S. D. A., Farm Service Agency

Prgram: Transfers of Inventory Farm Properties to Federal and State Agencies

for Conservation Purposes

Authorities: The Consolidated Farm and Rural Development Act

Funding:

Key Responsibilities: Transfer certain inventory farm properties to Federal and State

agencies for conservation purposes. The property must have marginal value for agricultural production, be classified as environmentally

sensitive, or be of special management importance.

Point Of Contact:

Program: Water Bank Program

Authorities: The Water Bank Act of 1970

Funding:

Key Responsibilities: Provides preservation and improvement of major vetlands as habitat

for migratory waterfowl and other wildlife; conservation of surface waters; reduction of runoff, soil and wind erosion; lood control; improved water quality; improved subsurface moisure; and

enhancement of the natural beauty of the landscape

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042 (410) 381-4550/4551

Program: Emergency Conservation Program

Authorities: The Agricultural Credit Act of 1978

Funding:

Key Responsibilities: Shares with farmers and ranchers the cost of rehabilitating farmland

damaged by wind erosion, floods, hurricanes, or other natural disaters, and for carrying out emergency water conservation measures during

periods of severe drought.

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042

(410) 381-4550/4551

U. S. D. A., Natural Resource Conservation Service (NRCS)

Program: Emergency Wetland Reserve Program

Authorities: Section 216, PL 81-516 and Section 404, Title IV, PL 95-331

Funding:

Key Responsibilities: Provides the purchase of easements from persons owning cropland

who voluntarily agree to restore farmed, converted, or potential

wetlands.

Point Of Contact: Dr. Jeri Berc

339 Busch's Frontage Road Suite 301

Annapolis, Maryland 21401-5534

(410) 757-0861

U. S. D. A., Natural Resource Conservation Service (NRCS)

Program: Forestry Incentive Program

Authorities: The Cooperative Forestry Assistance Act of 1978

Funding:

Key Responsibilities: Encourages landowners to plant trees on suitable open lands or cut

over areas and to perform timber stand improvement work for production of timber and other related forest resources. Cost-share agreements between the landowner and the Secretary of Agriculture are based on forest management plans developed by the landowner in cooperation with and approved by the State forestry agency. Costsharing assistance cannot exceed 65 percent of the cost of work under

approved plans.

Point Of Contact: Dr. Jeri Berc

USDA, NRCS

339 Busch's Frontage Road

Annapolis, Maryland 21401-5534

(410) 757-0861 Ext,315

U.S.D.A., Natural Resource Conservation Service (NRCS)/ Farm Services Agency (FSA)

Program: Wetlands Reserve Program

Authorities: Federal Agriculture Improvement and Reform Act of 1996

Funding:

Key Responsibilities: Provides financial incentives for restoration and protection of wetlands to landowners. Requires that, beginning October 1, 1996, one-third of total program acres be enrolled in permanent easements, one-third in 30-year easements, and one-third inrestoration only cost-share agreements. Individuals may choose the category for their eligible land. Provides landowners with 75 percent to 100 percent costsharing for permanent easements, 50 percent to 75 percent for 30-year easements, and 50 percent to 75 percent for restoration cost-share agreements. Cost-sharing will help pay for restoration.

Point Of Contact: Dr. Jeri Berc

USDA, NRCS

339 Busch's Frontage Road

Annapolis, Maryland 21401-5534

(410) 757-0861 Ext,315

U.S.D.A., Natural Resource Conservation Service (NRCS)/ Farm Services Agency (FSA)

Program: Swampbuster Provision

Authorities: Federal Agriculture Improvement and Reform Act of 1996

Funding:

Key Responsibilities: Allows farmers more flexibility in complying with wetland

conservation requirements while protecting natural resources.

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042

(410) 381-4550/4551

-or-

Dr. Jeri Berc

State Conservationist

USDA, NRCS

339 Busch's Frontage Road

Annapolis, Maryland 21401-5534

(410) 757-0861 Ext, 315

U. S. D. A., Farm Service Agency (FSA)

Program: Supply Restriction Programs

Authorities:

Funding:

Key Responsibilities: To reduce the number of acres planted and to thus reduce crop

production through acreage reductions, set-asides, paid land

diversions, and payment-in-kind.

Point Of Contact: Mr. James Voss

State Executive Director Farm Services Agency 8335 East Guilford Road Columbia, Maryland 21042

(410) 381-4550/4551

Program: Watershed Protection

Authorities: Section 3, Watershed Protection and Flood Prevention Act of 1954;

PL 83-566

Funding:

Key Responsibilities: Provides technical assistance to state and local governments in

planning and carrying out works of improvement to protect, develop, and utilize the land and water resources in small watersheds under 250,000 acres in size. Conservation land treatment and structural and nonstructural measures are used to address problems related to watershed protection, flood prevention, and agricultural and nonagricultural water management. Nonstructural measures are

preferred.

Point Of Contact: Jeri Berc

339 Busch's Frontage Road Suite 301 Annapolis, Maryland 21401-5534

(410) 757-0861

Program: Emergency Wetland Reserve Program

Authorities: Section 216, PL 81-516 and Section 404, Title IV, PL 95-331

Funding:

Key Responsibilities: Provides the purchase of easements from persons owning cropland

who voluntarily agree to restore farmed, converted or potential

139 Brack's Frontage Road Suite 301

wetlands.

Point Of Contact: Jeri Berc

339 Busch's Frontage Road Suite 301

Annapolis, Maryland 21401-5534

(410) 757-0861

Program: Emergency Watershed Protection Program

Authorities: Section 216, PL 81-516 and Section 404, Title IV, PL 95-331

Funding: \$5 million per county based on availability of funds

Key Responsibilities: Provides the Natural Resource Conservation Service with

authorization for disaster relief funding in repairing damages to waterways and watersheds. Work includes debris removal and erosion control for waterways, levee repair, and relocations. Cost-share is 75/25. Funds are to be obligated within 40 days for exigency and 220 for non-exigency after receipt. Public and private landowners, land managers and others are eligible. Sponsorship must be a legal sub-

division of a state government or a state itself.

Point Of Contact: Jeri Berc

339 Busch's Frontage Road Suite 301 Annapolis, Maryland 21401-5534

(410) 757-0861

Program: Cooperative River Basin Program

Authorities: Section 6, PL 83-566

Funding:

Key Responsibilities: Provides technical assistance to Federal, State, regional, and local

governments in formulating and carrying out plans for conservation use treatment measures, nonstructural measures, and development.

Plans may include management and structural measures, or

combinations thereof.

Point Of Contact: Jeri Berc

339 Busch's Frontage Road Suite 301 Annapolis, Maryland 21401-5534

(410) 757-0861

Program: Section 502 Housing

Authorities: Administered through-Rural Housing and Community Development

Service (RHCDS)

Funding: Section 502 -\$5,00,00,000.00

Key Responsibilities: RHCDS Programs help finance new and improved housing for

moderate, low, or very low income families.

Point Of Contact: Peter Wesp

92 Thomas Johnson Drive, Suite 220

Fredrick, Maryland 21793

(301) 694-7522

Program: Community Facility Loans

Authorities: Rural Development Act 1990 Administered through Rural Housing

and Community Development Service (RHCDS)

Funding: \$1,000,000.00

Key Responsibilities: The programs assist rural communities in financing construction,

enlargement or improvement of fire stations, libraries, hospitals and clinics, industrial parks, and other essential community facilities.

Point Of Contact: Peter Wesp

92 Thomas Johnson Drive, Suite 220

Fredrick, Maryland 21793

(301) 694-7522

Problems / Solutions: Low funding amounts. High priority projects will usually get national

reserve or national pooled funds

Program: Business and Industrial Guaranteed Loans

Authorities:

Funding:

Key Responsibilities:

Point Of Contact: James Waters

5201 South Dupont Highway

P.O. Box 400

Camden, Delaware 19934

(302) 697-4324

Program: Water and Waste Disposal Loans and Grants

Authorities: Administered through Rural Utilities Service (RUS)

Funding:

Key Responsibilities:

Point Of Contact: James Waters

5201 South Dupont Highway

P.O. Box 400

Camden, Delaware 19934

(302) 697-4324

U. S. Department of Commerce, Economic Development Administration

Program: EDA Flood Relief Program

Authorities: 31 solves and all and a liquid to be a summitted as a birror of the A.

Funding:

Key Responsibilities:

Point Of Contact:

U. S. Department of Housing and Urban Development (USDHUD)

Program: Section 108 Loan Guarantee Program

Authorities:

Funding:

Key Responsibilities: Under this program, entitlement communities can receive loan

guarantees equal to 5 times their CDBG entitlement amount. Communities in nonentitlement areas can receive loan guarantees equal to 5 times the State's grant under the CDBG program. The maximum loan repayment period is 20 years. Grantees that have received guarantees in the past for activities that have yet not materialized may also request that HUD approve the use of those funds for other activities. The Section 108 loan guarantees can be used to finance acquisition of real property, rehabilitation of publicly owned real property, housing rehabilitation, public facilities, and

economic development activities.

Point Of Contact: Harold Young

10 South Howard Street Baltimore, Maryland 21201

(410) 962-2520

U. S. Department of Housing and Urban Development (USDHUD)

Program: Home Program

Authorities: Housing and Community Act of 1974, Title IV of the Robert T,

Stafford Disaster Relief and Emergency Assistance Act. HOME

Investment Partnership Act.

Funding: Variable based on region and income. Funded through HUD.

Key Responsibilities: Grantees may reprogram previously awarded grants to redirect their

focus to disaster recovery activities. HUD may expedite grant awards for grantees with program year start dates coming up in the near future; permit grantees with program year start dates later in the year to change to an earlier date; waive regulatory and statutory progam requirements (except for certain provisions) to increase the flexibility

of the use of funds for disaster recovery.

Point Of Contact: Harold Young

10 South Howard Street Baltimore, Maryland 21201

(410) 962-2520

U. S. Department of Housing and Urban Development (USDHUD)

Program: Community Development Block Grant

Authorities: Housing and Community Act of 1974

Funding: Federal funds available as determied by FEMA. \$988,638.00 special supplemental grant currently available. CDBG funds of approximately

\$400,000.00 are available for use at discretion of the Secretary,

DHCD (Special Project Category).

Key Responsibilities: Grantees may reprogram previously awarded grants to redirect their

focus to disaster recovery activities. HUD may expedite grant awards for grantees with program year start dates coming up in the near

future; permit grantees with program year start dates later in the year to change to an earlier date; waive regulatory and statutory program requirements (except for certain provisions) to increase the flexibility

of the use of funds for disaster recovery.

Point Of Contact: Harold Young

10 South Howard Street Baltimore, Maryland 21201

(410) 962-2520

U. S. Department of The Interior, Fish & Wildlife Service (USFWS)

Program: Small Wetlands Acquisition Program

Authorities:

Funding:

Key Responsibilities:

Point Of Contact: Robert Pennington

177 Admiral Cochman Drive Annapolis, Maryland 21401

(410) 573-4546

U. S. Department of The Interior, Fish & Wildlife Service (USFWS)

Program: Partner for Wildlife

Authorities:

Funding:

Key Responsibilities:

Point Of Contact: Robert Pennington

177 Admiral Cochman Drive Annapolis, Maryland 21401

(410) 573-4546

U. S. Department of The Interior, Fish & Wildlife Service (USFWS)

Program: North American Wetlands Conservation Fund

Authorities:

Funding:

Key Responsibilities:

Point Of Contact: Robert Pennington

177 Admiral Cochman Drive Annapolis, Maryland 21401

(410) 573-4546

U. S. Department of The Interior, National Park Service (NPS)

Program: Federal Land Transfer, Federal Land-to-Parks Program

Authorities:

Funding: \$85,000

Key Responsibilities: To identify, assess, and transfer available surplus Federal real property

to state and local parks, and to advise disposing agencies of local resource conservation interests. Maintain oversight on transferred land to ensure continued public access and use for parks and recreation. Applicants must be state or local governments, and properties must be made available by the General Services

Administration (GSA). Application must be received within 20 days from date of surplus property notice from GSA. Information on property available may be obtained from GSA, Region I office,

Boston, MA. (617) 835-5700.

Point Of Contact: Wendy Ormont

National Center for Recreation & Conservation

P.O. Box 37127

Washington D.C. 20013

(202) 565-1184

U. S. Department of The Interior, National Park Service (NPS)

Program: Rivers and Trails Conservation Program

Authorities: National Wild & Scenic Rivers Act, National Trails Act, National Outdoor Recreation Act

Funding: \$7 million (in technical assistance)

Key Responsibilities: Provides National Park Service staff assistance to communities for multi-objective river corridor planning, trail and greenway development, and open space conservation efforts. Program staff work in partnership with local communities. Products and services are tailored to the needs of the community including: visioning, strategic planning, organization development, facilitation, multi-objective river coorridor plans, trail and open space plans. Program staff have worked with interested communities in identifying non-structural options to flood hazard mitigation, and assisted communities in making informed decisions about future growth and development in an effort to minimize future flood losses. Projects are based on requests

from community organizations, local and/or state governments.

Point Of Contact: Ursula Lemanski & Don Briggs

Potomac Valley Field Office

Rivers, Trails, and Conservation Assistance Program

c/o C&O Canal National Historical Park

P.O. Box 4

Sharpsburg, Maryland 21782 (301) 984-1908 (x119 & x111)

U. S. Department of the Interior, Office of Surface Mining (OSM)

Program: Appalachian Clean Streams Initiative

Authorities:

Funding: Up to 100 percent financing

Key Responsibilities: OSM has proposed the Appalachian Clean Streams Initiative. The

initiative is a non-regulatory effort aimed at remediation of existing sources of acid mine drainage (AMD) often found at abandoned and bond-forfeited sites. The major goal of the cleanup is to increase information exchange and to eliminate duplicate efforts among state, local and Federal government agencies that are working in this arena.

Point Of Contact: Robert Uram

1951 Constitution Avenue, NW

MS 233 SIB

Washington, DC 20240

(202) 208-4006

U. S. Department of the Interior, Office of Surface Mining (OSM)

Program: Abandoned Mine Land (AML) program

Authorities: Title IV of the Surface Mining Control and Reclamation Act of 1977

(SMCRA)

Funding: FY1994 grants distributed to States and Indian tribes totaled \$2 billion

Key Responsibilities: The program provides for the restoration of eligible lands and waters

mined and abandoned or left inadequately restored. A primary objective of SMCRA is for the States/Indian tribes to implement the program. Congress provided that individual States may establish their own programs for regulating surface and underground coal mining and

reclamation on private land. SMCRA provides authority to use money from the fund to reclaim and restore land and water resources

adversely affected by past mining.

Point Of Contact: Dave Hamilton

(717) 782-4036

Program: Planning Assistance to States

Authorities: Section 22, Water Resources Development Act of 1974; PL 93-251

Funding: \$300,000/state. Cost Share 50/50 with local sponser

Key Responsibilities: Provides technical assistance to states, local governments, and other

non-Federal entities in the preparation of comprehensive plans for the development, utilization, and conservation of water and related land resources. Assistance is limited to planning level studies. Recent studies include flood damage reduction, water supply, water conservation, water quality, hydropower, erosion, navigation, and

methodologies to evaluate wetlands or other resources.

Point Of Contact: Robyn Colosimo and Jack Dinne

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4995 (410) 962-4993

Pngram: Flood Plain Management Services Program

Authorities: Section 206, Flood Control Act of 1960

Finding: 100 percent Federal

Key Responsibilities: Furnish floodplain information and technical assistance to states,

counties, and cities for prudent use of land subject to flooding from streams, lakes, and oceans. Developing and interpreting flood and floodplain data such as flood hazard mapping; providing a broad assessment of the impact of structural and nonstructural flood damage-reduction measures; providing technical assistance on floodproofing systems and techniques; and assessing the possible impacts of land-use changes on the physical, socio-economic, and environmental

conditions of the floodplain.

Point Of Contact: Robyn Colosimo and Jack Dinne

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4995 (410) 962-4993

Program: Flood Emergency Operations and Disaster Assistance

Authorities: Flood Control Act of 1962; PL 84-99, PL 99-84, PL 93-252, PL 95-51

Funding: \$20,000

Key Responsibilities: Provides flood fighting and rescue operations; post-flood response; emergency repair and restoration of flood-damaged or destroyed flood-control works such as levees; emergency protection of federally authorized hurricane and shore protection works being threatened; the repair or restoration of Federal hurricane or shore protection structures damaged or destroyed by wind, wave, or water action of other than an ordinary nature; emergency supplies of clean water to any locality confronted with a source of contaminated water causing or likely to cause a substantial threat to the public health and welfare of the inhabitants of the locality; and emergency water supplies for human and livestock use in areas determined to be drought distressed. Provision of advance flood damage-reduction measures by the USACE is supplemental to individual and local community effort, rather than a replacement for them.

Point Of Contact: Mordecai Bennett

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4223

Program: Continuing Authorities Program

connection with dredging.

Authorities: Section 14, Flood Control Act of 1946 - Emergency streambank and shoreline erosion protection for public facilities and services.; Section 208, Flood Control Act of 1954 - Snagging and clearing for flood control; Section 205, Flood Control Act of 1948 - Flood control; Section 103, River and Harbor Act of 1962 - Hurricane and storm damage reduction; Section 107, River and Harbor Act of 1960 - Navigation; Section 111, River and Harbor Act of 1968 - Mitigation of shoreline erosion damage caused by Federal navigation projects; Section 1135, Water Resources Development Act of 1986, as amended - Project modifications for the improvement of the environment.; Section 204, Water Resources Development Act of 1992, as amended - Implementing ecosystem restoration projects in

Funding: Cost sharing requirements vary among the authorities being implemented. Under the CAP, the Corps is authorized to construct small projects within specific federal funding limits, which range from \$500,000 to \$5 million.

Key Responsibilities: Authority is provided for study, adoption and construction of small projects for navigation, flood control, beach erosion control and shore protection. The eight delegated authorities are administered by the Corps of Engineers together under the Continuing Authorities

Program (CAP). CAP establishes a process by which the Corps can respond to a variety of water resource problems without the need to obtain specific congressional authorization for each project.

Point Of Contact: Stacey Brown

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-3639

Program: General Investigations

Authorities: Provided by Congress for specific actions.

Funding: Dependent upon congressional appropriation.

Key Responsibilities: Flood control, navigation, and ecosystem restoration.

Point Of Contact: James Johnson

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4900

Problems / Solutions: Studies are authorized as part of the Water Resources Development

Acts (WRDA) which normally occur on a two year cycle; the last WRDA was recently passed. 50/50 cost share of Feasibility Study.

Program: Project Modifications to Improve Environment

Authorities: Section 1135, Water Resources Development Act of 1986; PL 99-662

Funding:

Key Responsibilities: Provides modifications of the operation of completed USACE projects

for the purpose of improving environmental quality. The program can be used to protect, restore, or create wetlands, provided the work involves modification of a water resources project constructed by the USACE. Types of projects that could be considered include

installation of gaged culverts in USACE levees; opening oxbows cut off by USACE levee or navigation features; or realignment of a levee to allow areas between the levee and the channel to revert to historic

floodplain habitat.

Point Of Contact: Dave Ladd

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4900

Program: Water Resources Development Projects

Authorities: Section 205, Flood Control Act of 1948; Section 107, The Rivers and

Harbors Act of 1960; The Water Resources Development Act of

1986, PL 99-662

Funding:

Key Responsibilities: Responible for flood control and navigation projects, which in some

cases include other purposes such as water supply, recreation,

hydroelectric power, and fish and wildlife enhancement. Such projects,

with certain exceptions, require specific authorization by Congress.

Point Of Contact: Dave Ladd

U.S. Army Corps of Engineers, Baltimore District

CENAB-PL-E P.O. Box 1715

Baltimore, Maryland 21201

(410) 962-4900

Problems / Solutions: Project authorization and availability of funds

U.S. Department of Housing and Urban Development (USDHUD)

Program: Mortgage Insurance Program

Authorities: National Housing Act, Section 203(h)

Funding:

Key Responsibilities: Under this program, individuals or families whose residences were

destroyed or damaged to such an extent that reconstruction or repair

is necessary, are eligible for 100 percent financing.

Point Of Contact: Harold Young

10 South Howard Street Baltimore, Maryland 21201

(410) 962-2520

Program: Performance Partnership Grants (PPGs)

Authorities: 1996 Omnibus Consolidated Rescissions and Appropriations Act (PL

104-134)

Funding:

Key Responsibilities: PPGs is a multi program grant provided to States and Tribes with the option to combine funds from two or more categorical grants into one or more PPGs. States and Tribes will have the flexibility to address their highest environmental priorities across all media and established resource allocations based on those priorities, while continuing to address core program commitments. Funds are allocated from categorical grant programs. All States and federally recognized Indian Tribes (including environmental, health, agriculture, and other State/Tribal agencies) eligible to receive more than one categorical grant in Fiscal Year (FY) 1997 are eligible to receive PPGs.

Point Of Contact:

Program: Regulatory Reinvention (XL) Pilot Projects: XL Community Pilot Program

Authorities:

Funding:

Key Responsibilities: EPA will respond to requests for regulatory flexibility to support local communities' efforts to create innovative alternative environmental management strategies that are supportive of community economic goals. EPA invites proposals from local entities capable of demonstrating alternative approaches to environmental protection. XL community pilot projects should be consistent with and should help to establish long-range community environmental goals and bring together groups, facilities, community organizations, and governments at all levels to achieve the goals of greater environmental quality consistent with economic development.

Point Of Contact: XL Community Pilot Program (703) 934-3241

Program: The National Nonpoint Source Management Program

Authorities: Section 319, Clean Water Act

Funding: The total EPA grant must be matched by 40% from the state.

Key Responsibilities: Under Section 319, states address nonpoint pollution by identifying nonpoint source pollution problems and sources responsible for the water quality problems. States adopt management programs to control nonpoint source pollution and then implement those programs. Section 319(h) provides for EPA's grant awards to states to help them implement those adopted programs. The assessment report and management program must be approved by EPA for a state to be eligible for Section 319(h) funds. Types of projects that have received funding from Section 319 grants have ranged from information and educational programs to the demonstration of innovative technologies and watershed-based approches to solving water quality problems. With the aid of Section 319 grants, states have been able to address site- and watershed-specific water quality problems as well as to initiate and maintain state wide nonpoint source programs.

Point Of Contact: Dov Weitman

U.S. EPA

Assessment and Watershed Protection Division Office of Wetlands,

Oceans, and Watersheds

(202) 260-7088

Program: Sustainable Development Challenge Grant (SDCG) program

Authorities: National Performance Review's- Reinventing Environmental Regulation

Funding: Ranges for FY 1996: (1) \$50,000.00 or less, and (2) between \$50,001.00 and \$100,000.00. FY 1997 levels may be changed based on EPA's assessment of FY 1996 experience. Multi Media FY97 est. \$5 million.

Key Responsibilities: The Sustainable Development Challenge Grant program is a new competitive grant program developed to encourage community, business, and government to work cooperatively to develop flexible, locally-oriented approaches that link efforts to enhance environmental quality management with sustainable development and revitalization. The SDCG program is intended to challenge communities to invest in a sustainable future. EPA seeks proposals for projects that will: Catalyze community-based and regional projects to promote sustainable development; Build partnerships to increase community long-term capacity to protect the environment; Leverage public and private investments to enhance environmental quality by enabling sustainable community efforts to continue beyond EPA funding.

Point Of Contact: Glenn Eugster
Sustainable Development Challenge Grant Program
Office of Regional Operations and State/Local Relations (1503)
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460
(410) 267-5722 (Region 3)

-or-Pamela A. Hurt, U.S. EPA (202) 260-0422

Program: The Clean Water State Revolving Fund Program

Authorities: The Clean Water Act

Funding: Currently, the program has over \$20 billion in assets

Key Responsibilities: The State Revolving Fund program is a partnership between EPA and

the states. It allows states the flexibility to provide funding for projects that will address their highest-priority water quality needs. Under the program, EPA provides grants or "seed money" to all 50 states plus Puerto Rico to capitalize state loan funds. The states, in turn, make loans to communities, individuals, and others for high priority water-quality activities. As money is paid back into the revolving fund, new loans are made to other recipients that need help in maintaining the quality of their water. While traditionally used to build or improve wastewater treatment plants, loans are also us3ed increasingly for: agricultural, rural, and urban runoff control; estuary improvement projects; wet weather flow control, including

improvement projects; wet weather flow control, including stormwater and sewer overflows; and alternative treatment

technologies.

Point Of Contact: Clean Water State Revolving Fund Branch, U.S. EPA

401 M Street, SW (Mailcode 4204)

Washington, D.C. 20460

(202) 260-7359

Kit Farber (202) 260-3973 -- EPA POC

Kenneth McElroy (410) 631-3117 -- Maryland State POC

U.S. Environmental Protection Agency (USEPA), Office of Prevention, Pesticides and Toxic Substances

Program: Pollution Prevention Grants Program

Authorities: Pollution Prevention Act of 1990, Section 6605

Funding: Grant Obligations FY 97 est \$6,486,200.00

Key Responsibilities: Support state and local level pollution prevention programs that

address the reduction of pollutants across all environmental media: air,

land, and water. The programs support the establishment and

expansion of state pollution prevention programs and address various sectors of concern such as industrial toxics, agriculture, energy, and

transportation.

Point Of Contact:

U.S. Environmental Protection Agency (USEPA), Office of Water

Program: Clean Lakes Program

Authorities: Clean Water Act, Section 314

Funding: Grant Obligations FY 97, est. \$90 million

Key Responsibilities: Provide financial assistance to States and certain Indian Tribes for

assessing the water quality of publicly owned lakes; diagnosing the causes of degradation; developing lake restoration and protection plans; implementing these plans to restore and preserve the lake; and post restoration monitoring to determine effectiveness of restoration.

Point Of Contact:

Program: Water Quality Management Planning

Authorities: Clean Water Act, Section 205(j) and 604(b) and Water Quality Act of

1987

Funding: Grant Obligations FY 97, est. \$0

Key Responsibilities: To assist States, Regional Public Comprehensive Planning

Organizations, and Interstate Organizations in carrying out water

quality management planning.

Point Of Contact:

Program: Wetlands Protection- State and Tribal Development Grants

Authorities: Clean Water Act, Public Law 92-500, as amended, Section 104(b)(3),

33 U.S.C. 1254(b)(3)

Funding: Grant Obligations FY 97, est. \$15 million

Key Responsibilities: The Project Grants (Cooperative Agreements) are intended to

encourage State wetlands protection program development or to

enhance/augment existing effective State programs

Point Of Contact:

Program: Chesapeake Bay Program

Authorities: Clean Water Act, Section 117

Funding: Base Level I funding \$8,790,000.00 Maryland Level I 2,637,000.00 Base Level II funding \$881,814.00 Maryland Level II 330,413.00

Key Responsibilities: Authorized to award grants or Cooperative Agreements to state water pollution control agencies, interstate agencies, and other public or non-profit private agencies, institutions, organizations, and individuals for

research investigations, experiments, training, demonstrations, surveys, and studies related to the reduction of pollution and the improvement of living resources in the Chesapeake Bay and to states for the purpose of implementing the Chesapeake Bay interstate management program. Grants funded under the authority of Section 117(a) require a 5 percent match of total project costs, while projects funded under Section 117(b) require a 50 percent match of total

project costs (dollar for dollar match).

Point Of Contact:

Program: Water Pollution Control-State and Interstate Program Support

Authorities: Clean Water Act, Section 106

Funding: Grant Obligations, FY 97, est. \$80 million

Key Responsibilities: Assist States (including territories, the District of Columbia, and

Indian Tribes qualified under Section 518(e)) and interstate agencies in establishing and maintaining adequate measures for prevention and

control of surface and ground water pollution.

Point Of Contact:

U.S.D.A., Natural Resource Conservation Service (NRCS)

Program: Rural Abandoned Mine Program (RAMP)

Authorities:

Funding: FFY95 \$600,000.00

Key Responsibilities: RAMP is a Federal cost-sharing program to reclaim abandoned coal-

project costs (dollar for dollar much).

mined land mined prior to 3 August 1977. Highest priority is given to areas posing extreme danger to public health, safety, property, and

general welfare.

Point Of Contact:

GOVERNOR'S FLOOD MITIGATION TASK FORCE FOR WESTERN MARYLAND

INTERIM REPORT

ANNEX B

LISTING OF APPOINTED TASK FORCE
MEMBERS AND ADDITIONAL PARTICIPANTS

U.S.D.A., Natural Resource Conservation Service (NRCS)

Program: Raral Alumacood Migu Program (F.AMF)

Additionities

GOVERNOR'S FLOOD'NITIGATION TASK

arest posing extreme danger to public health, salicy, property, and

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Polisi Of Contact:

Problems / Solutions

ANNEX B

LISTING OF APPOINTED TASK FORCE MEMBERS AND ADDITIONAL PARTICIPANTS

Task Force Appointed Members

Grantsville NID 21538

Casper Taylor, Chair Speaker of the House State House 100 State Circle Annapolis MD 21401 410-841-3800 FAX 410-841-1138

COL Randall Inouye, Vice Chair
District Engineer
US Army Corps of Engineers
10 South Howard Street
Baltimore MD 21201
410-962-4545
FAX 410-962-7516

Jeri L. Berc
State Conservationist
USDA Natural Resources Conservation Service
339 Busch's Frontage Road Suite 301
Annapolis MD 21401-5534
410-757-0861x315
FAX 410-757-0687

Carolyn D. Davis
Deputy Secretary
Maryland Department of Natural Resources
580 Taylor Avenue
Annapolis MD 21401
410-974-3043
FAX 410-974-5206

Malcolm D. Davis, President
Davis, Reur & Associates
PO Box 246
Hagerstown MD 21740
301-739-5660
FAX 301-583-4336

Vicki Doty
Mitigation Division Director
Federal Emergency Management Agency
Region III
105 South Seventh Street
Philadelphia PA 19106
215-931-5506
FAX 215-931-5501

Robin Douglas
Regional Manager
Maryland Department of Business
& Economic Development
234 Paca Street
Cumberland MD 21502
301-722-054
FAX 301-722-0924

George C. Edwards
Delegate
Maryland House of Delegates
PO Box 658 23 North Pennsylvania Avenue
Grantsville MD 21536
301-895-5720
FAX 301-746-5831

Doug Faris, Superintendent National Park Service PO Box 4 Sharpsburg MD 21782 301-739-4200 FAX 301-739-5275

Al Feldstein Regional Planner Maryland Office of Planning 111 South George Street Cumberland MD 21502 301-777-2158 FAX 301-777-2495 Sue Hecht Delegate Maryland General Assembly 2498 Bear Den Road Frederick MD 21701 301-293-0655 FAX 301-293-0614

Bill Kenny 154 Church Street Westernport MD 21562 410-359-9934/3026

Louise Lawrence, Chief
Office of Resource Conservation
Maryland Department of Agriculture
50 Harry Truman Parkway
Annapolis MD 21401
410-841-5863
FAX 410-841-5914

Dale R. Lewis
Commissioner
Allegany County
84 East Main Street
Lonaconing MD 21539
301-463-5159
FAX 301-463-5159

Robert Lyons Mayor of Westernport Washington Street Westernport MD 21562 301-359-0515

Sull McCartney
Treasurer
Highland Engineering & Surveying, Inc.
309 South 2nd Street
Oakland MD 21550
301-334-6185
FAX 301-334-8317

Crawnaville MD 21032

David McMillion
Director
Maryland Emergency Management
2 Sudbrook Lane East
Pikesville MD 21208
410-486-4422
FAX 410-486-1867

Daniel A. Murphy
Councilman
Town of Hancock
212 Maryland Avenue
Hancock MD 21750
301-678-6635

Jane T. Nishida
Secretary
Maryland Department of the Environment
2500 Broening Highway
Baltimore MD 21224
410-631-3084
FAX 410-631-3888

Patricia J. Payne
Secretary
Maryland Department of Housing
and Community Development
100 Community Place
Crownsville MD 21032
410-514-7005
FAX 410-987-4070

Herbert M. Sachs
Executive Director
Interstate Commission
on Potomac River Basin
6110 Executive Boulevard Suite 300
Rockville MD 20852
301-984-1908x117
FAX 301-984-5841

Richard L. Stup
Project Manager
Loiederman Associates, Inc.
256 West Patrick Street
Frederick MD 21701
301-696-1240
FAX 301-831-1865

Stephen C. Thienel
Regional Vice President
CSX
100 North Charles Street
Baltimore MD 21201
410-613-6900
FAX 410-237-2892

Peter Wesp Rural Development Manager USDA Rural Development 92 Thomas Johnson Drive, Suite 220 Frederick MD 21793 301-694-7522 FAX 301-694-5840

David L. Winstead Secretary Maryland Department of Transportation PO Box 8755 BWI Airport MD 21240-0755 410-865-1000 FAX 410-865-1334

Harold D. Young
Acting State Coordinator
U.S. Department of HUD
10 South Howard Street
Baltimore MD 21201
410-962-2520x3474
FAX 410-962-1849

W. Stephen Young PE Director of Public Works Allegany County 701 Kelly Road Suite 300 Cumberland MD 21502 301-777-5933 FAX 301-777-2001

92 Thomas Johnson Drive, Suita 220

Frederick MD 21793

Task Force Other Participants

Lisa Albin
Public Information Officer
Maryland Emergency Management
2 Sudbrook Lane East
Pikesville MD 21208
410-486-4422
FAX 410-486-1867

Jesse Ash
Planner
Research and State Data Center
Maryland Office of Planning
301 West Preston St.
Baltimore MD 21202
410-767-4450
FAX 410-225-4480

T.W. Beaulieu, P.E.
District Engineer
Maryland Department of Transportation
State Highway Administration
1221 Braddock Road
P.O. Box 3347
LaVale MD 21502
301-777-2145
FAX 301-777-6968

Scott F. Boylan
Division Chief, Compliance Program
Maryland Department of Environment
Water Management Administration
160 South Water Street
Frostburg MD 21532
301-689-8391
FAX 301-689-6543

John E. Carey
Director
Maryland Department of Environment
Bureau of Mines
160 South Water Street
Frostburg MD 21532
301-689-6104
FAX 301-689-6544

Robyn S. Colosimo
Chief, Special Projects Section
US Army Corps of Engineers
10 South Howard Street
Baltimore MD 21201
410-962-4995
FAX 410-962-2948

John M. Contestabile
Director, Office of Administrative Services
Maryland Department of Transportation
PO Box 8755
BWI Airport MD 21240-0755
410-865-1122/1120
FAX 410-865-1337

Fred Crozier
Maintenance Engineer
Maryland Department of Transportation
State Highway Administration
1221 Braddock Road
P.O. Box 3347
LaVale MD 21502
301-777-2145
FAX 301-777-6968

MAJ Lawrence A. Deren Deputy District Engineer US Army Corps of Engineers 10 South Howard Street Baltimore MD 21201 410-962-4547 FAX 410-962-7516 Evalyn Fisher
State Hazard Mitigation Officer
Maryland Emergency Management
2 Sudbrook Lane East
Pikesville MD 21208
410-486-4422
FAX 410-486-1867

George Harman
Maryland Department of Environment
2500 Broening Highway
Baltimore MD 21224
410-631-3856
FAX 410-631-3873

J. L. Hearn, Director
Water Management Administration
Maryland Department of Environment
2500 Broening Highway
Baltimore MD 21224
410-631-3567
FAX 410-631-4894

Milton D. Howell
Assistant State Conservationist
USDA NRCS
339 Busch's Frontage Road
Annapolis MD 21401
410-757-0861x340
FAX 410-757-0687

James J. Kahl
Water Resources Engineer
Maryland Department of the Environment
Water Management Administration
160 South Water Street
Frostburg MD 21532
301-689-8598
FAX 301-689-6543

Myra Kidd Office of US Representative Roscoe Bartlett 50 Broadway Frostburg MD 21532 301-689-0034/800-889-3012

Ursula Lemanski
Project Manager
National Park Service
c/o C&O Canal National Historic Park
PO Box 4
Sharpsburg MD 21782
301-984-1908x119
FAX 301-984-5841

Tim Magrath
Office of US Representative
Paul Sarbanes
141 Baltimore Street #206
Cumberland MD 21502
301-724-0695
FAX 301-724-4660

Jennifer C. Maust, Representative Senator Barbara Mikulski 94 West Washington Street Hagerstown MD 21740 301-797-2826 FAX 301-797-2241

Sean McKewen, Regional Chief
Wetlands and Waterways Division
Maryland Department of Environment
160 South Water Street
Frostburg MD 21532
301-689-8299

George J. Melodini Superintendent CSX 722 Virginia Avenue Cumberland MD 21502 301-759-2107 FAX 301-759-2185 William Parrish
Maryland Department of the Environment
2500 Broening Highway
Baltimore MD 21224
410-631-4164
FAX 410-631-3873

Robert J. Pennington Chief US Fish and Wildlife Service 177 Admiral Cochman Drive Annapolis MD 21401 410-573-4546/4524 FAX 410-269-0832

Tom Reisdorf, Administrator
Department of Labor, Licensing and Regulation
1100 North Eutaw Street
Baltimore MD 21201
410-767-2199
FAX 410-333-5175

Michael J. Sharon Assistant Director for Operations Maryland Emergency Management Agency 2 Sudbrook Lane East Pikesville, MD 21208 410-486-4422 FAX 410-486-1867

Phil Straw
Office of Representative
Roscoe Bartlett
15 East Main Street
Westminster MD 21157
410-857-1181/1-800-705-2385
FAX 410-857-1329

June Swem Special Assistant Maryland Emergency Management 2 Sudbrook Lane East Pikesville MD 21208 410-486-4422 FAX 410-486-1867

2500 Breening Highway

David F. Thomas, Team Leader Community Mitigation Programs Federal Emergency Management Agency Region III 105 South Seventh Street Philadelphia PA 19106 215-931-5506 FAX 215-931-5501

Roger Thomas State Construction Engineer USDA Natural Resources Conservation Service 11602 Bedford Road Northeast Cumberland MD 21502 301-777-1494

Cecilia C. Williams Special Assistant to the Governor State House 100 State Circle Room 210 Annapolis MD 21401 410-974-3570 FAX 410-974-5735